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August 2, 2011

Ms. Shelly Lam  
On-Scene Coordinator  
Emergency Response Branch  
U.S. Environmental Protection Agency Region V  
2525 North Shadeland Avenue  
Indianapolis, IN 46219

**Subject:** **Tuchman Cleaners Site Assessment Report**  
**Indianapolis, Marion County, Indiana**  
**Technical Direction Document No.: S05-0001-1012-034**  
**WESTON START Contract No.: EP-S5-06-04**  
**Document Control No.: 1323-2A-AMMY**

Dear Ms. Lam:

The Weston Solutions, Inc. (WESTON<sup>®</sup>), Superfund Technical Assessment and Response Team (START) is submitting the enclosed site assessment report for the Tuchman Cleaners Site in Indianapolis, Marion County, Indiana. If you have any questions or comments regarding the report or require additional copies, please contact me at (937) 602-3089.

Sincerely,  
WESTON SOLUTIONS, INC.

Randy Kirkland  
WESTON START Project Manager

Enclosure

cc: WESTON START DCN File

**SITE ASSESSMENT REPORT  
FOR THE  
TUCHMAN CLEANERS SITE  
INDIANAPOLIS, MARION COUNTY, INDIANA  
SITE ID NO. B5ZU**

**NPL STATUS: PROPOSED**

Prepared for:

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
Region V  
Emergency Response Branch  
2595 North Shadeland Avenue, Suite 100, SE-GI  
Indianapolis, IN 46219

Prepared by:

**WESTON SOLUTIONS, INC.**  
4710-A Interstate Drive  
Cincinnati, OH 45246

Date Prepared:	August 2, 2011
Technical Direction Document No.:	S05-0001-1012-034
Document Control No.:	1323-2A-AMMY
Contract No.:	EP-S5-06-04
WESTON START Project Manager:	Randy Kirkland
Telephone No.:	(937) 602-3089
U.S. EPA On-Scene Coordinator:	Shelly Lam

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Cincinnati, OH 45246

August 2, 2011



Prepared by: \_\_\_\_\_ Date: August 2, 2011

David Sena  
WESTON START Assistant Project Scientist

Reviewed and  
Approved by: \_\_\_\_\_

  
Randy Kirkland  
WESTON START Project Manager

Date: August 2, 2011

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## LIST OF ACRONYMS AND ABBREVIATIONS

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µg/kg	Microgram per kilogram
µg/L	Microgram per liter
°C	Degree Celsius
ATSDR	Agency for Toxic Substances and Disease Registry
bgs	Below ground surface
CFR	<i>Code of Federal Regulations</i>
DHHS	Department of Health and Human Services
HASP	Health and safety plan
IARC	International Agency for Research on Cancer
IDEML	Indiana Department of Environmental Management
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NTP	National Toxicology Program
OSC	On-Scene Coordinator
OSWER	Office of Solid Waste and Emergency Response
PCE	Tetrachloroethene
PID	Photoionization detector
PPE	Personal protective equipment
PPM	Parts per million
RAL	Removal Action Level
RI	Remedial investigation
RSL	Regional Screening Level
SSL	Soil Screening Level
START	Superfund Technical Assessment and Response Team
TCE	Trichloroethene
TCLP	Toxicity Characteristic Leaching Procedure
TDD	Technical Direction Document

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## **LIST OF ACRONYMS AND ABBREVIATIONS (CONTINUED)**

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U.S. EPA      United States Environmental Protection Agency

VOC      Volatile organic compound

WESTON      Weston Solutions, Inc.

## 1. INTRODUCTION

The United States Environmental Protection Agency (U.S. EPA) tasked the Weston Solutions, Inc. (WESTON<sup>®</sup>), Superfund Technical Assessment and Response Team (START) to assist U.S. EPA in performing a site assessment for the former Tuchman Cleaners Site located at 4401 North Keystone Avenue, Marion County, Indianapolis, Indiana (the Site; see **Figure 1-1**). Specifically, under Technical Direction Document (TDD) No. S05-0001-1012-034, WESTON START was directed to perform the following activities:

- Compile available Site information
- Develop site-specific safety and field sampling plans
- Perform a site reconnaissance
- Collect subsurface soil samples
- Collect groundwater samples
- Collect bulk waste samples
- Procure analytical laboratory services for the samples collected
- Provide photographic documentation of the Site (see **Appendix A**)
- Provide a written log documenting all on-site activities
- Validate analytical data (see **Appendix B**)
- Evaluate the potential for imminent and substantial threats to the public health or welfare of the United States or the environment posed by the Site
- Prepare and deliver this site assessment report

The site assessment was performed to evaluate Site conditions and the potential for imminent and substantial threats to the public health or welfare of the United States or the environment in accordance with the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), Title 40 of the *Code of Federal Regulations* (CFR), Part 300.415(b)(2).

This site assessment report is organized into the following sections:

- **Introduction** – Provides a brief description of the objective and scope of the site assessment
- **Site Background** – Details the Site description and history

- **Site Assessment Activities** – Discusses observations made and the methods and procedures used during the site assessment
- **Analytical Results** – Discusses analytical results for samples collected during the site assessment
- **Threats to Human Health and the Environment** – Identifies conditions at the Site that warrant a removal action under the NCP
- **Conclusions** – Summarizes the site assessment findings, and presents conclusions based on these findings

Figures and tables are presented after the conclusions section. **Appendix A** of this report provides photographic documentation of Site conditions and activities during the site assessment, and **Appendix B** provides the data validation report and validated analytical results for samples collected during the site assessment.

## 2. SITE BACKGROUND

This section discusses the Site description and history.

### 2.1 SITE DESCRIPTION

The Site is located at 4401 North Keystone Avenue in Indianapolis, Marion County, Indiana (see **Figure 1-1**). The Site's geographical coordinates are 39° 50' 11.97" North latitude and 86° 7' 17.28" West longitude. The Site is located in a residential and commercial area approximately 4.5 miles northeast of downtown Indianapolis. The Site is bordered to the north by a commercial business, EZPAWN; to the west by Allisonville Road and a pet hospital, the Keystone Pet Hospital; to the south by East 44<sup>th</sup> Street and a restaurant, Grady's Champion Deli; and to the east by North Keystone Avenue and a vacant grassy lot. Fall Creek, a tributary of the White River, is located approximately 600 feet south of the Site. The Site is located near two municipal wells in the Fall Creek Wellhead Protection Area.

The Site sits on a 2.2-acre lot and contains an approximately 37,000-square-foot facility building (see **Figure 2-1**). According to a remedial investigation (RI) report prepared by URS Corporation, there are three distinct sand and gravel units in the Site's subsurface that are separated by relatively impermeable glacial till units. Devonian-aged carbonate bedrock is

present at the Site at 70 to 72 feet below ground surface (bgs). During the RI, three distinct groundwater zones were identified above bedrock corresponding to the three sand and gravel units. Groundwater flow in these aquifers is predominately southwest.

## **2.2 SITE HISTORY**

Operations at the Site included dry cleaning; cleaning of draperies, leather, and suede; and wet washing of laundry, commercial uniforms, and floor mats. Tuchman Cleaners has been the Site's sole occupant for over 50 years. According to the Indiana Department of Environmental Management (IDEM), past environmental assessments indicate soil and groundwater at the Site have been impacted by historical operations and that the contamination remains. Specifically, in November 2004, URS Corporation conducted a Phase II RI at the Site and reported the presence of chlorinated volatile organic compounds (VOC), specifically tetrachloroethene (PCE) and its associated breakdown products, including trichloroethene (TCE); cis-1,2-dichloroethene; and vinyl chloride. Concentrations were in the parts per million (PPM) range. Impact from the PCE and associated VOCs was concentrated in the upper 25 feet of the subsurface in the western and southwestern portions of the Site.

In addition, nearby municipal wells in the Fall Creek Wellhead Protection Area have been contaminated with VOCs from the Site. One of the production wells in the wellfield was shut down because of contamination.

## **3. SITE ASSESSMENT ACTIVITIES**

On January 24 through 27, 2011, U.S. EPA and WESTON START conducted a site assessment to document Site conditions and evaluate the Site for a potential time-critical removal action. The following sections discuss Site observations and sampling activities. **Appendix A** provides photographic documentation of conditions observed and activities conducted during the site assessment.

### **3.1 SITE OBSERVATIONS**

On January 24, 2010, U.S. EPA On-Scene Coordinator (OSC) Shelly Lam and WESTON  
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START members Mike Blair and Keith Hughes mobilized to the Site. During the site assessment, WESTON START conducted air monitoring using a MultiRAE multi-gas air monitor to monitor air in the breathing zone for carbon monoxide, hydrogen sulfide, lower explosive limit, oxygen, and volatile organic compounds (VOC). All ambient air monitoring readings were at or below background levels.

During the site assessment, WESTON START observed that the interior of the facility had an open floor plan with rooms along the periphery. The front office was located on the west side of the building, the maintenance and parts rooms were located on the south side, and the operations and storage areas were located on the north side. The facility contained two catch basins, both with inlet pipes but no outlet pipes. A wastewater treatment room in the northeast area of the facility held a sump suspected to drain to the City of Indianapolis' sanitary sewer system (see **Photograph No. 11 in Appendix A**). Two self-contained subsurface vaults were observed in the facility, one in a west-central area and the other in a southwest area. The facility had a partial second floor that contained offices.

## **3.2 SAMPLING ACTIVITIES**

This section discusses the subsurface soil, groundwater, and bulk waste sampling activities.

### **3.2.1 Subsurface Soil Sampling**

Subsurface soil cores were collected from the Site from six locations from 0 to 12 or 0 to 16 feet bgs in 4-foot-long intervals using a track-mounted Geoprobe®. After each 4-foot core was collected, it was opened and inspected and observations were recorded in a soil boring log. Each soil core was field screened for VOCs by collecting a small aliquot (about the volume of a tablespoon) from a location or locations in the core containing suspected contamination, such as locations where stained soil or hydrocarbon odors were observed. These representative aliquots were placed into a small, plastic, Zip-loc-style bag; allowed to volatilize; and then screened for VOCs using a MultiRAE photoionization detector (PID). A sample was retained for laboratory VOC analysis based on if the VOC headspace concentration exceeded 3 PPM on the MultiRAE PID.

WESTON START collected six investigative subsurface soil samples for laboratory analysis: TCS-SB01-012411, TCS-SB02-012411, TCS-SB12-012511, TCS-SB13-012511, TCS-SB14-012511, TCS-SB15-012511. **Figure 3-1** shows the sampling locations, and **Table 3-1** summarizes the type, locations, and analytical parameters for each investigative soil sample collected. The samples were submitted under chain of custody to ALS Environmental in Cincinnati, Ohio, on January 27, 2011, under analytical TDD No. S05-0001-1012-034. The samples were analyzed for Toxicity Characteristic Leaching Procedure (TCLP) using U.S. EPA SW-846 Methods 1311 and 8260, and total VOCs using U.S. EPA SW-846 Method 8260.

In accordance with the approved site-specific health and safety plan (HASP), all subsurface soil sampling activities were conducted in Level D personal protective equipment (PPE). Fresh sampling gloves were donned before sampling activities began at each new location as necessary to avoid cross contamination. Dedicated Terra Core™ soil samplers were used for each subsurface soil sample analyzed for total VOCs.

### **3.2.2 Groundwater Sampling**

WESTON START collected the following nine investigative groundwater samples from existing groundwater monitoring wells at the Site: TCS-GW01-012511, TCS-GW02-012511, TCS-GW03-012611, TCS-GW04-012611, TCS-GW05-012611, TCS-GW06-012611, TCS-GW07-012611, TCS-GW08-012611, and TCS-GW09-012711. **Figure 3-1** shows the sampling locations, and **Table 3-2** summarizes the type, locations, and analytical parameters for each investigative groundwater sample collected. Of the nine samples, five were collected from shallow aquifer monitoring wells (sampling depth 20 feet bgs or less), three from intermediate aquifer monitoring wells (sampling depth 37 to 39 feet bgs), and one from a deep aquifer monitoring well (sampling depth 65 feet bgs).

At each location, the monitoring well lid was removed and a submersible bladder pump with dedicated Teflon tubing slowly was lowered into the well to approximately 3 to 5 feet from the bottom of the well. Next, the bladder pump was used to purge the monitoring well for a minimum of 20 minutes to ensure that the sample was representative of water flowing through the aquifer and not of the well casing. A Yellow Springs Instruments Model 556 multi-

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parameter water-quality Sonde and a Hanna HI98703 turbidity meter were used monitor the pH, temperature, conductivity, dissolved oxygen content, oxidation-reduction potential, and turbidity of the purge water. Water quality parameters were recorded approximately every 5 minutes. In addition, the depth to static water in the well was monitored to ensure that water was not being taken from the well's casing. WESTON START discontinued purging when water quality parameters were within 10 percent for three consecutive readings.

Groundwater samples were collected in volatile organic analysis vials pre-preserved with hydrochloric acid (20 percent) to ensure a pH of less than 2.0 standard units. Sample bottles were dried, labeled, and placed on ice to cool to 4 degrees Celsius (°C; 39 degrees Fahrenheit). The samples were submitted under chain of custody to ALS Environmental in Cincinnati, Ohio, on January 27, 2011, under analytical TDD No. S05-0001-1012-034. The samples were analyzed for total VOCs using U.S. EPA Drinking Water Analytical Method 524.2.

In accordance with the approved site-specific HASP, sampling activities were conducted in Level D PPE. Fresh sampling gloves were donned before sampling activities began at each new sampling location as necessary to avoid cross contamination. All generated waste products, including expendable PPE and spent sampling supplies (dedicated nylon tubing, polyethylene bladders, paper towels, etc.) were placed into trash bags and properly disposed of off site in accordance with appropriate local, state, or federal regulations. Decontamination water generated during the site assessment was stored in a 55-gallon drum and left in the facility.

### **3.2.3 Bulk Waste Sampling**

WESTON START collected two bulk waste samples, TCS-SOLID01-012511 and TCS-WTR01-012511, from sediment and liquid, respectively, from the sump in the wastewater treatment room in northeast corner of the facility. **Figure 3-1** shows the sampling locations. The samples were submitted under chain of custody to ALS Environmental in Cincinnati, Ohio, on January 27, 2011, under analytical TDD No. S05-0001-1012-034. TCS-SOLID01-012511 was analyzed for TCLP VOCs using U.S. EPA SW-846 Methods 1311 and 8260, and total VOCs using U.S. EPA SW-846 Method 8260. Sample TCS-WTR01-012511 was analyzed for total VOCs only using U.S. EPA SW-846 Method 8260.

## 4. ANALYTICAL RESULTS

Analytical results for the subsurface soil and bulk waste samples analyzed for TCLP VOCs were compared to the screening criteria at 40 CFR, Part 261.24 (Subpart C), to determine if the samples represent hazardous waste. Analytical results for subsurface soil samples analyzed for total VOCs were compared to the U.S. EPA Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites: Protection of Groundwater Soil Screening Levels (SSL). RSLs are considered protective of human health and the environment and may be used to set initial cleanup criteria or help identify areas, contaminants, and conditions that require further federal attention. Groundwater analytical results for VOCs were compared to U.S. EPA Superfund Removal Action Levels (RAL). Superfund RALs are drinking water contaminant concentrations considered, along with other factors, to determine if alternate water supplies must be provided under Superfund removal authority. The U.S. EPA Office of Solid Waste and Emergency Response (OSWER) developed the Superfund RALs, which are presented in "Numeric Removal Action Levels for Contaminated Drinking Water Sites" dated November 10, 1998.

**Appendix B** provides the data validation and validated analytical results for the samples. The following sections summarize the subsurface soil, groundwater, and bulk waste sample results.

### 4.1 SUBSURFACE SOIL SAMPLE RESULTS

**Table 4-1** summarizes the subsurface soil sample results. No subsurface soil samples contained TCLP VOCs at concentrations exceeding TCLP VOC regulatory limits. Therefore, according to 40 CFR 261.24, no subsurface soil sample collected from the Site represents a material that meets the definition of hazardous waste by virtue of the characteristic of toxicity.

Subsurface soil sample TCS-SB15-012511 contained 2-hexanone at a concentration of 900 micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), which exceeds the U.S. EPA RSL of 11  $\mu\text{g}/\text{kg}$ . Subsurface soil samples TCS-SB01-012411 and TCS-SB12-012511 contained n-propylbenzene at concentrations of 4,200 and 3,400  $\mu\text{g}/\text{kg}$ , respectively, which exceed the U.S. EPA RSL of 2,500  $\mu\text{g}/\text{kg}$ . Subsurface soil sample TCS-SB15-012511 contained 1,1,2,2-tetrachloroethane at a

concentration of 11,000 µg/kg, which exceeds the U.S. EPA RSL of 0.026 µg/kg. Subsurface soil samples TCS-SB02-012411, TCS-SB13-012511, and TCS-SB14-012511 contained PCE at concentrations of 4,000; 35; and 680 µg/kg, respectively, which exceed the U.S. EPA RSL of 0.049 µg/kg. Subsurface soil sample TCS-SB02-012411 contained TCE at a concentration of 29 µg/kg, which exceeds the U.S. EPA RSL of 0.72 µg/kg. Subsurface soil samples TCS-SB01-012411 and TCS-SB15-012511 contained 1,2,4-trimethylbenzene at concentrations of 20,000 and 1,800 µg/kg, respectively, which exceed the U.S. EPA RSL of 21 µg/kg.

## 4.2 GROUNDWATER SAMPLE RESULTS

**Table 4-2** summarizes the groundwater sample results. Groundwater samples TCS-GW04-012611, TCS-GW06-012611, and TCS-GW08-012611 contained cis-1,2-dichloroethene at concentrations of 640; 1,200; and 1,000 micrograms per liter (µg/L), respectively, which exceed the U.S. EPA RAL of 400 µg/L. Groundwater samples TCS-GW01-012511, TCS-GW02-012511, TCS-GW03-012611, TCS-GW04-012611, and TCS-GW08-012611 contained PCE at concentrations of 2,100; 49,000; 780; 1,100; and 6,100 µg/L, respectively, which exceed the U.S. EPA RAL of 70 µg/L. Groundwater samples TCS-GW02-012511 and TCS-GW08-012611 contained TCE at concentrations of 1,200 and 2,300 µg/L, respectively, which exceed the U.S. EPA RAL of 300 µg/L. Groundwater samples TCS-GW02-012511, TCS-GW03-012611, TCS-GW04-012611, TCS-GW06-012611, and TCS-GW08-012611 contained vinyl chloride at concentrations of 3.2, 5.4, 23, 220, and 14 µg/L, respectively, which exceed the U.S. EPA RAL of 2 µg/L.

## 4.3 BULK WASTE SAMPLE RESULTS

**Table 4-3** summarizes the bulk waste sample results. No bulk waste samples contained TCLP VOCs at concentrations exceeding TCLP VOC regulatory limits. Therefore, according to 40 CFR 261.24, no bulk waste sample collected from the Site represents a material that meets the definition of hazardous waste by virtue of the characteristic of toxicity.

## 5. THREATS TO HUMAN HEALTH AND THE ENVIRONMENT

Factors to be considered when determining the appropriateness of a potential removal action at a site are delineated in the NCP at 40 CFR 300.415(b)(2). The factors applicable to the Site are summarized below.

- **Actual or potential exposure of nearby human populations, animals, or the food chain to hazardous substances or pollutants or contaminants**

During the site assessment, subsurface soil samples contained 2-hexanone; n-propylbenzene; 1,1,2,2-tetrachloroethane; PCE; TCE; and 1,2,4-trimethylbenzene at maximum concentrations of 900; 4,200; 11,000; 4,000; 29; and 20,000 µg/kg, respectively, which exceed the U.S. EPA RSLs for Chemical Contaminants at Superfund Sites: Protection of Groundwater SSLs. Groundwater samples contained cis-1,2-dichloroethene; PCE; TCE; and vinyl chloride at maximum concentrations of 1,200; 49,000; 2,300; and 220 µg/L, which exceed the U.S. EPA Superfund RALS.

Contamination in Site subsurface soil and groundwater could migrate to residential and commercial properties through the vapor intrusion pathway and to drinking water supplies (see the next bulleted item). Potential receptors include nearby residents, animals, and future Site workers. Direct contact with hazardous substances is possible, and the close proximity of residential and commercial areas to the Site increases the likelihood of exposure of human populations. Potential exposure could cause imminent endangerment to the public health or welfare of the United States or the environment.

PCE; TCE; cis-1,2-dichloroethene; and vinyl chloride are hazardous substances as defined by Section 101(14) of the Comprehensive Environmental Response, Compensation, and Liability Act. Information about each substance is provided below from the Agency for Toxic Substances and Disease Registry (ATSDR) ToxFAQs.

**PCE:** Inhalation of high levels of PCE can cause dizziness, headache, sleepiness, confusion, nausea, difficulty speaking and walking, unconsciousness, and death. The Department of Health and Human Services (DHHS) has determined that PCE may reasonably be anticipated to be a human carcinogen.

**TCE:** Inhalation of small amounts of TCE may cause headaches, lung irritation, dizziness, poor coordination, and difficulty concentrating. Inhalation of large amounts of TCE may cause impaired heart function, unconsciousness, and death. Inhalation of TCE for long periods of time may cause nerve, kidney, and liver damage. Drinking large amounts of TCE may cause nausea, liver damage, unconsciousness, impaired heart function, and death, and drinking small amounts of TCE for long periods of time may cause liver and kidney damage, impaired immune system function, and impaired fetal development in pregnant women.

In its 9<sup>th</sup> Report on Carcinogens, the National Toxicology Program (NTP) determined  
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that TCE is “reasonably anticipated to be a human carcinogen.” Additionally, the International Agency for Research on Cancer (IARC) has determined that TCE is probably human carcinogen.

**cis-1,2-Dichloroethene:** Inhalation of high levels of 1,2-dichloroethene can cause nausea, drowsiness, sleepiness, and death. When ingested in low doses, cis-1,2-dichloroethene has been shown to cause a decrease in red blood cells and has been shown to have an effect on the liver. Although the long-term (365 days or longer) human health effects after exposure to low concentrations of 1,2-dichloroethene are unknown, one animal study suggests slower development of exposed fetuses.

**Vinyl Chloride:** Inhalation of vinyl chloride can cause dizziness or sleepiness, and high levels can cause unconsciousness and death. Long-term exposure to vinyl chloride can result in changes in the structure of the liver, cause nerve damage, and cause immune reactions. The DHHS has determined that vinyl chloride is a known carcinogen. Studies of workers who inhaled vinyl chloride over many years show an increased risk of liver, brain, lung, and blood cancer.

- **Actual or potential contamination of drinking water supplies or sensitive ecosystems**

The site assessment indicates that groundwater samples collected from the Site contained cis-1,2-dichloroethene; PCE; TCE; and vinyl chloride at maximum concentrations of 1,200; 49,000; 2,300; and 220 µg/L, which exceed the U.S. EPA Superfund RALs. All but TCE were detected in both the upper and intermediate aquifers. In addition, nearby municipal wells in the Fall Creek Wellhead Protection Area have been contaminated with VOCs from the Site. One of the production wells in the wellfield was shut down because of contamination.

- **High levels of hazardous substances or pollutants or contaminants in soils at or near the surface that may migrate**

During the site assessment, subsurface soil samples collected from the Site contained 2-hexanone; n-propylbenzene; 1,1,2,2-tetrachloroethane; PCE; TCE; and 1,2,4-trimethylbenzene at maximum concentrations of 900; 4,200; 11,000; 4,000; 29; and 20,000 µg/kg, respectively, which exceed the U.S. EPA RSLs for Chemical Contaminants at Superfund Sites: Protection of Groundwater SSLs. Contamination was detected from 8 to 16 feet bgs. In addition, groundwater samples collected during the site assessment contained cis-1,2-dichloroethene; PCE; TCE; and vinyl chloride at maximum concentrations of 1,200; 49,000; 2,300; and 220 µg/L, which exceed the U.S. EPA Superfund RALs. The soil and groundwater sample results indicate that near-surface contamination could migrate off site and impact city drinking water supplies. In addition, nearby municipal wells in the Fall Creek Wellhead Protection Area have been contaminated with VOCs from the Site. One of the production wells in the wellfield was shut down because of contamination.

- **The availability of other appropriate federal or state response mechanisms to respond to the release**

In an e-mail message dated September 15, 2010, Harry Atkinson of IDEM requested assistance from the U.S. EPA in conducting time-critical removal activities at the Site.

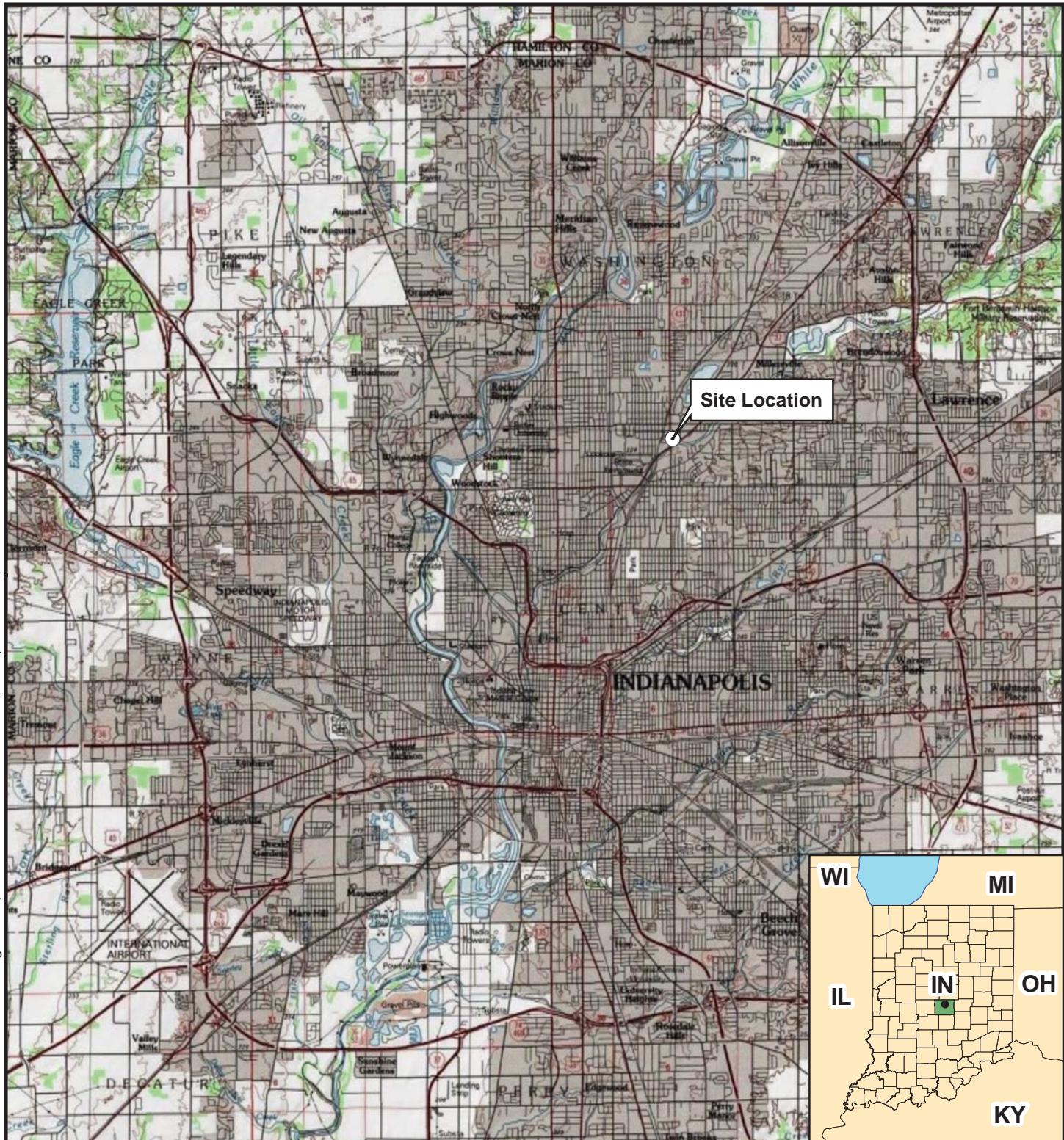
## 6. CONCLUSIONS

The site assessment consisted of a site reconnaissance and a field sampling event conducted from January 24 to 27, 2011. During the site assessment, WESTON START observed that the facility contained two catch basins, a wastewater treatment room in the northeast area, and two self-contained subsurface vaults. Subsurface soil samples collected during the site assessment contained 2-hexanone; n-propylbenzene; 1,1,2,2-tetrachloroethane; PCE; TCE; and 1,2,4-trimethylbenzene at maximum concentrations of 900; 4,200; 11,000; 4,000; 29; and 20,000 µg/kg, respectively, which exceed the U.S. EPA RSLs for Chemical Contaminants at Superfund Sites: Protection of Groundwater SSLs. Groundwater samples collected during the site assessment contained cis-1,2-dichloroethene; PCE; TCE; and vinyl chloride at maximum concentrations of 1,200; 49,000; 2,300; and 220 µg/L, which exceed the U.S. EPA Superfund RALS. Based on analytical results, Site conditions observed during the site assessment, and other assessments conducted by state agencies, the Site meets the criteria for a removal action pursuant to 40 CFR 300.415(b)(2). Therefore, the Site poses an imminent and substantial threat to the public health or welfare of the United States or the environment.

---

**FIGURES**

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0 3 Miles

**Image Source:** National Geographic Society



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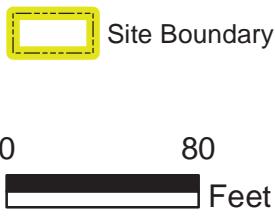


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**Figure 1-1**  
**Site Location Map**  
**Tuchman Cleaners Site**  
**Indianapolis, Marion County,**  
**Indiana**



**Legend**



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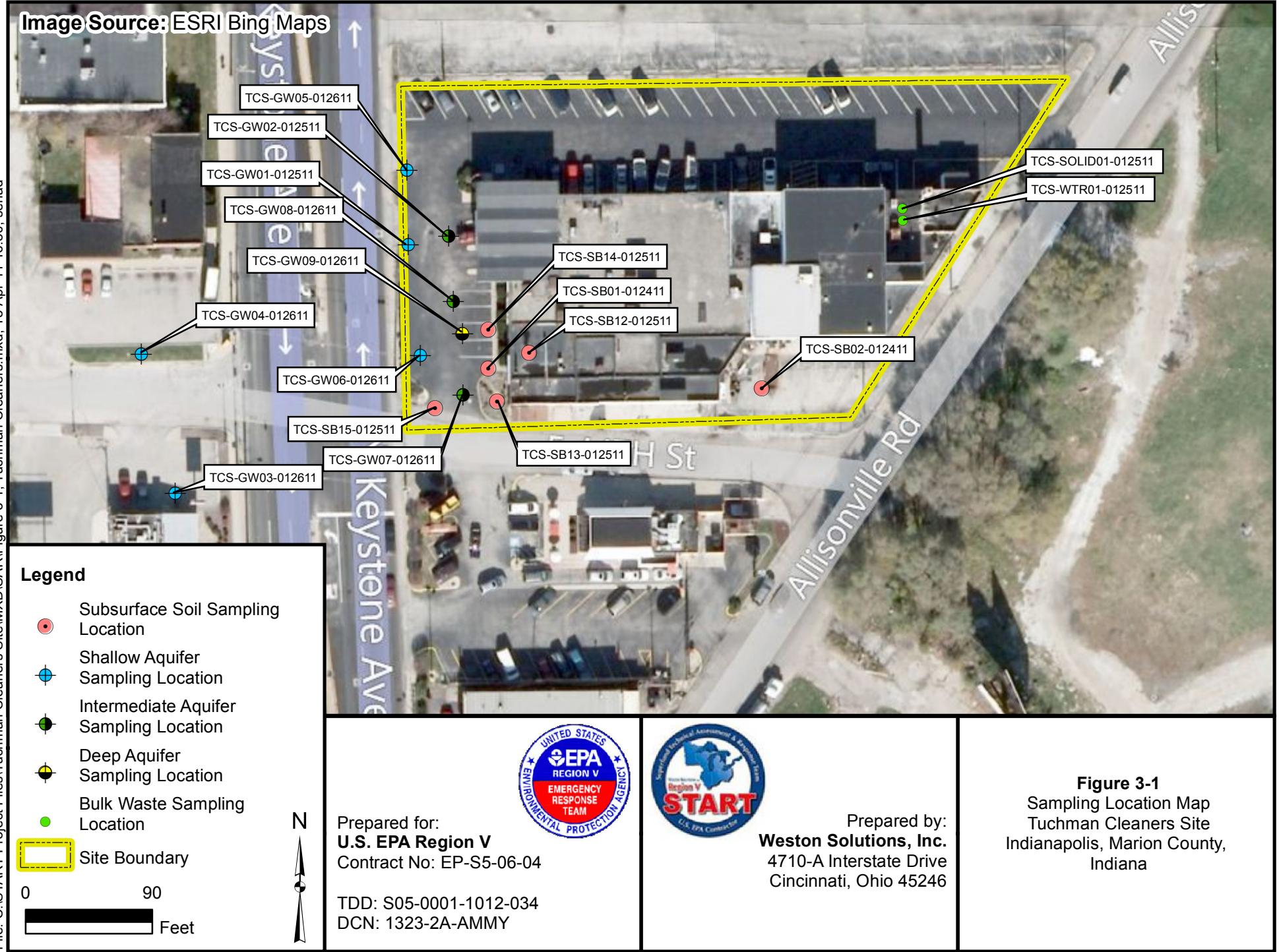


Prepared for:  
**U.S. EPA Region V**  
Contract No: EP-S5-06-04  
  
TDD: S05-0001-1012-034  
DCN: 1323-2A-AMMY



Prepared by:  
**Weston Solutions, Inc.**  
4710-A Interstate Drive  
Cincinnati, Ohio 45246

**Figure 2-1**  
Site Layout Map  
Tuchman Cleaners Site  
Indianapolis, Marion County,  
Indiana



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## **TABLES**

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**TABLE 3-1**  
**SUBSURFACE SOIL SAMPLING SUMMARY TABLE**  
**TUCHMAN CLEANERS SITE**  
**INDIANAPOLIS, MARION COUNTY, INDIANAPOLIS**

Field Sample ID	Sampling Date	Sample Type	Sampling Location	Sampling Depth (feet bgs)	Analytical Parameters
TCS-SB01-012411	1/24/2011	Grab, field sample	West parking lot	12-16	TCLP VOCs and total VOCs
TCS-SB02-012411	1/24/2011		Southeast parking lot	8-12	
TCS-SB12-012511	1/25/2011		Inside main building	12-16	
TCS-SB13-012511	1/25/2011		West parking lot	12-16	
TCS-SB14-012511	1/25/2011		West parking lot	12-16	
TCS-SB15-012511	1/25/2011		West parking lot	12-16	

Notes:

bgs = Below ground surface

ID = Identification

TCLP = Toxicity Characteristic Leaching Procedure

VOC = Volatile organic compound

**TABLE 3-2**  
**GROUNDWATER SAMPLING SUMMARY TABLE**  
**TUCHMAN CLEANERS SITE**  
**INDIANAPOLIS, MARION COUNTY, INDIANAPOLIS**

Field Sample ID	Sampling Date	Sample Type	Casing Diameter (inches)	Casing Construction	Well ID	Well Depth (feet bgs)	Static Water Depth (feet bgs)	Sampling Depth (feet bgs)	Analytical Parameter
TCS-GW01-012511	1/25/2011	Grab, field sample	2.00	PVC	11	22.27	12.00	19.00	Total VOCs
TCS-GW02-012511	1/25/2011				2I	40.82	21.47	37.00	
TCS-GW03-012611	1/26/2011				14	19.37	13.40	16.00	
TCS-GW04-012611	1/26/2011				13	20.18	14.17	17.00	
TCS-GW05-012611	1/26/2011				12	23.50	12.65	20.00	
TCS-GW06-012611	1/26/2011				9	22.12	12.25	19.00	
TCS-GW07-012611	1/26/2011				3I	41.60	21.80	38.00	
TCS-GW08-012611	1/26/2011				4I	42.30	21.80	39.00	
TCS-GW09-012711	1/27/2011				4D	70.55	31.41	65.00	

Notes:

bgs = Below ground surface

ID = Identification

PVC = Polyvinyl chloride

VOC = Volatile organic compound

**TABLE 4-1**  
**SUBSURFACE SOIL ANALYTICAL RESULTS SUMMARY TABLE**  
**TUCHMAN CLEANERS SITE**  
**INDIANAPOLIS, MARION COUNTY, INDIANA**

Analysis	Screening Criterion	Sample Designation					
		TCS-SB01-012411	TCS-SB02-012411	TCS-SB12-012511	TCS-SB13-012511	TCS-SB14-012511	TCS-SB15-012511
<b>TCLP VOCs (mg/L)<sup>1</sup></b>							
PCE	0.7	0.085	0.26	0.076	0.11	0.31	0.056
<b>Total VOCs (µg/kg)<sup>2</sup></b>							
Acetone	4,500	ND (620)	ND (25)	ND (620)	ND (25)	83	ND (620)
n-Butylbenzene	NA	3,100	ND (25)	3,900	ND (25)	250	ND (620)
sec-Butylbenzene	NA	6,500	ND (25)	11,000	39	640	980
tert-Butylbenzene	NA	ND (620)	ND (25)	1,200	ND (25)	ND (25)	ND (620)
2-Hexanone	11	ND (620)	ND (25)	ND (620)	ND (25)	ND (25)	<b>900</b>
Isopropylbenzene (Cumene)	1,100	980	ND (25)	980	ND (25)	ND (25)	ND (620)
p-Isopropyltoluene	NA	2,100	ND (25)	ND (620)	ND (25)	ND (25)	ND (620)
n-Propylbenzene	2,500	<b>4,200</b>	ND (25)	<b>3,400</b>	ND (25)	ND (25)	ND (620)
1,1,2,2-Tetrachloroethane	0.026	ND (620)	ND (25)	ND (620)	ND (25)	ND (25)	<b>11,000</b>
PCE	0.049	ND (620)	<b>4,000</b>	ND (620)	<b>35</b>	<b>680</b>	ND (620)
TCE	0.72	ND (620)	<b>29</b>	ND (620)	ND (25)	ND (25)	ND (620)
1,2,4-Trimethylbenzene	21	<b>20,000</b>	ND (25)	ND (620)	ND (25)	ND (25)	<b>1,800</b>
m,p-Xylene	1,200	ND (620)	ND (25)	ND (620)	ND (25)	ND (25)	ND (620)
Xylenes, total	200	ND (620)	ND (25)	ND (620)	ND (25)	ND (25)	ND (620)

Notes:

**Bold shaded results exceed the screening criteria.**

<sup>1</sup>Screening criteria based on 40 CFR, Part 261.24, Subpart C

<sup>2</sup>Screening criteria based on U.S. EPA RSLs: Protection of Groundwater SSLs (risk-based)

µg/kg = Microgram per kilogram

CFR = *Code of Federal Regulations*

mg/L = Milligram per liter

NA = Not available

ND ( ) = Not detected (laboratory detection limit)

PCE = Tetrachloroethene

RSL = Regional Screening Level

SSL = Soil Screening Level

TCE = Trichloroethene

TCLP = Toxicity Characteristic Leaching Procedure

U.S. EPA = United States Environmental Protection Agency

VOC = Volatile organic compound

**TABLE 4-2**  
**GROUNDWATER ANALYTICAL RESULTS SUMMARY TABLE**  
**TUCHMAN CLEANERS SITE**  
**INDIANAPOLIS, MARION COUNTY, INDIANA**

Analysis	RAL <sup>1</sup>	Sample Designation						
		TCS-GW01-012511	TCS-GW02-012511	TCS-GW03-012611	TCS-GW04-012611	TCS-GW05-012611	TCS-GW06-012611	TCS-GW07-012611
<b>Total VOCs (µg/L)</b>								
Chlorobenzene	700	ND (5)	16	ND (5)				
1,2-Dichlorobenzene	3,000	ND (5)	18	ND (5)				
1,1-Dichloroethene	70	ND (5)	14	ND (5)				
cis-1,2-Dichloroethene	400	110	300	130	<b>640</b>	ND (5)	<b>1,200</b>	ND (5)
trans-1,2-Dichloroethene	600	ND (5)	5.4	ND (5)	ND (5)	ND (5)	19	ND (5)
n-Propylbenzene	NA	ND (5)	6.5	ND (5)				
PCE	70	<b>2,100</b>	<b>49,000</b>	<b>780</b>	<b>1,100</b>	13	33	ND (5)
TCE	300	120	<b>1,200</b>	160	150	ND (5)	ND (5)	ND (5)
1,2,4-Trimethylbenzene	NA	ND (5)	9.7	ND (5)				
1,3,5-Trimethylbenzene	NA	ND (5)	7.5	ND (5)				
Vinyl chloride	2	ND (5)	<b>3.2</b>	<b>5.4</b>	<b>23</b>	ND (5)	<b>220</b>	ND (5)

Analysis	RAL <sup>1</sup>	Sample Designation	
		TCS-GW08-012611	TCS-GW09-012711
<b>Total VOCs (µg/L)</b>			
Chlorobenzene	700	ND (5)	ND (5)
1,2-Dichlorobenzene	3,000	ND (5)	ND (5)
1,1-Dichloroethene	70	ND (5)	ND (5)
cis-1,2-Dichloroethene	400	<b>1,000</b>	7.5
trans-1,2-Dichloroethene	600	20	ND (5)
n-Propylbenzene	NA	ND (5)	ND (5)
PCE	70	<b>6,100</b>	ND (5)
TCE	300	<b>2,300</b>	ND (5)
1,2,4-Trimethylbenzene	NA	ND (5)	ND (5)
1,3,5-Trimethylbenzene	NA	ND (5)	ND (5)
Vinyl chloride	2	<b>14</b>	ND (5)

Notes:

**Bold shaded results exceed the RAL.**

<sup>1</sup>RAL based on the U.S. EPA RAL for Contaminated Drinking Water Sites: Superfund RALS

µg/L = Microgram per liter

NA = Not available

ND ( ) = Not detected (laboratory detection limit)

PCE = Tetrachloroethene

RAL = Removal Action Level

TCE = Trichloroethene

U.S. EPA = United States Environmental Protection

VOC = Volatile organic compound

**TABLE 4-3**  
**BULK WASTE ANALYTICAL RESULTS SUMMARY TABLE**  
**TUCHMAN CLEANERS SITE**  
**INDIANAPOLIS, MARION COUNTY, INDIANA**

Analysis	Screening Criterion	Sample Designation	
		TCS-SOLID01-012511	TCS-WTR01-012511
<b>TCLP VOCs (mg/L)<sup>1</sup></b>			
PCE	0.7	ND (0.050)	NA
TCE	0.5	ND (0.050)	NA
Vinyl chloride	0.2	ND (0.050)	NA
<b>Total VOCs (µg/kg)</b>			
PCE	NA	31	NA
m,p-Xylene	NA	34	NA
Xylenes, total	NA	48	NA
<b>Total VOCs (µg/L)</b>			
Acetone	NA	NA	150
2-Butanone	NA	NA	63
2-Chlorotoluene	NA	NA	65
cis-1,2-Dichloroethene	NA	NA	890
trans-1,2-Dichloroethene	NA	NA	14
PCE	NA	NA	16
Toluene	NA	NA	14
1,2,4-Trimethylbenzene	NA	NA	18
1,3,5-Trimethylbenzene	NA	NA	5.4
Vinyl chloride	NA	NA	290
m,p-Xylene	NA	NA	9.9
o-Xylene	NA	NA	5.9
Xylenes, total	NA	NA	16

Notes:

<sup>1</sup>Screeening criterion based on 40 CFR, Part 261.24, Subpart C

µg/kg = Microgram per kilogram

µg/L = Microgram per liter

CFR = *Code of Federal Regulations*

mg/L = Milligram per liter

NA = Not available or not analyzed for

ND ( ) = Not detected (laboratory detection limit)

PCE = Tetrachloroethene

TCE = Trichloroethene

TCLP = Toxicity Characteristic Leaching Procedure

VOC = Volatile organic compound

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**APPENDIX A**  
**PHOTOGRAPHIC DOCUMENTATION**

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**Site:** Tuchman Cleaners Site

**Photograph No.:** 1

**Direction:** Southeast

**Subject:** Front of main facility building

**Date:** 1/17/11

**Photographer:** Keith Hughes



**Site:** Tuchman Cleaners Site

**Photograph No.:** 2

**Direction:** Southwest

**Subject:** North Keystone Avenue

**Date:** 1/24/11

**Photographer:** Keith Hughes



01/24/2011

**Site:** Tuchman Cleaners Site

**Photograph No.:** 3

**Direction:** East

**Subject:** Inside of main facility building

**Date:** 1/24/11

**Photographer:** Keith Hughes



01/24/2011

**Site:** Tuchman Cleaners Site

**Photograph No.:** 4

**Direction:** West

**Subject:** Room from which subsurface soil sample TCS-SB12-012511 was collected

**Date:** 1/24/11

**Photographer:** Keith Hughes



**Site:** Tuchman Cleaners Site

**Photograph No.:** 5

**Direction:** North

**Subject:** Geoprobe technician installing boring in west parking lot

**Date:** 1/24/11

**Photographer:** Keith Hughes



**Site:** Tuchman Cleaners Site

**Photograph No.:** 6

**Direction:** Southwest

**Subject:** Geoprobe technician installing boring in west parking lot

**Date:** 1/24/11

**Photographer:** Keith Hughes



**Site:** Tuchman Cleaners Site

**Photograph No.:** 7

**Direction:** East

**Subject:** Geoprobe technician installing boring in west parking lot

**Date:** 1/24/11

**Photographer:** Keith Hughes



**Site:** Tuchman Cleaners Site

**Photograph No.:** 8

**Direction:** Down

**Subject:** Geoprobe technician filling borehole with bentonite

**Date:** 1/24/11

**Photographer:** Keith Hughes



**Site:** Tuchman Cleaners Site

**Photograph No.:** 9

**Date:** 1/24/11

**Direction:** Down

**Photographer:** Keith Hughes

**Subject:** Geoprobe operation by WESTON START



**Site:** Tuchman Cleaners Site

**Photograph No.:** 10

**Date:** 1/25/11

**Direction:** Down

**Photographer:** Keith Hughes

**Subject:** WESTON START collecting soil sample using Terra Core™ soil sampler



**Site:** Tuchman Cleaners Site

**Photograph No.:** 11

**Date:** 1/25/11

**Direction:** Down

**Photographer:** Keith Hughes

**Subject:** Sump in the northeast corner of main facility building



**Site:** Tuchman Cleaners Site

**Photograph No.:** 12

**Date:** 1/25/11

**Direction:** Down

**Photographer:** Keith Hughes

**Subject:** Groundwater purging and collection



**Site:** Tuchman Cleaners Site

**Photograph No.:** 13

**Date:** 1/27/11

**Direction:** Down

**Photographer:** Keith Hughes

**Subject:** WESTON START monitoring water quality of well purge water

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**APPENDIX B**  
**DATA VALIDATION REPORT AND**  
**VALIDATED ANALYTICAL RESULTS**

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**TUCHMAN CLEANERS SITE  
INDIANAPOLIS, INDIANA  
DATA VALIDATION REPORT**

**Date:** March 7, 2011

**Laboratory:** ALS Environmental (ALS), Cincinnati, Ohio

**Laboratory Project #:** 1101544

**Data Validation Performed By:** Lisa Graczyk, Weston Solutions, Inc. (WESTON<sup>®</sup>) Superfund Technical Assessment and Response Team (START)

**Weston Analytical Work Order #/TDD #:** 20405.016.001.1324.00/S05-0001-1012-035

This data validation report has been prepared by WESTON START under the START III Region V contract. This report documents the data validation for six soil, one solid, and 10 water samples collected for the Tuchman Cleaners Site that were analyzed for the following parameters and U.S. Environmental Protection Agency (U.S. EPA) methods:

- Total Volatile Organic Compounds (VOC) by SW-846 Method 8260
- Toxicity Characteristic Leaching Procedure (TCLP) Volatile Organic Compounds (VOC) by SW-846 Methods 1311 and 8260

A level II data package was requested from ALS. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Superfund Organic Methods Data Review" dated June 2008. The Attachment contains the results summary sheets with the hand-written qualifiers applied during data validation.

Data Validation Report  
Tuchman Cleaners Site  
ALS Environmental  
Laboratory Project #: 1101544

## **TOTAL VOCs BY SW-846 METHOD 8260**

### **1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Analyzed</b>
TCS-SB01-012411	1101544-01	Soil	1/24/2011	2/1/2011
TCS-SB02-012411	1101544-02	Soil	1/24/2011	2/2/2011
TCS-SB12-012511	1101544-03	Soil	1/25/2011	2/1/2011
TCS-SB13-012511	1101544-04	Soil	1/25/2011	2/2/2011
TCS-SB14-012511	1101544-05	Soil	1/25/2011	2/2/2011
TCS-SB15-012511	1101544-06	Soil	1/25/2011	2/1/2011
TCS-Solid1-012511	1101544-07	Solid	1/25/2011	2/8/2011
TCS-GW01-012511	1101544-08	Water	1/25/2011	2/2/2011
TCS-GW02-012511	1101544-09	Water	1/25/2011	2/2/2011
TCS-GW03-012611	1101544-10	Water	1/26/2011	2/2/2011
TCS-GW04-012611	1101544-11	Water	1/26/2011	2/2/2011
TCS-GW05-012611	1101544-12	Water	1/26/2011	2/8/2011
TCS-GW06-012611	1101544-13	Water	1/26/2011	2/2/2011
TCS-GW07-012611	1101544-14	Water	1/26/2011	2/7/2011
TCS-GW08-012611	1101544-15	Water	1/26/2011	2/2/2011
TCS-GW09-012711	1101544-16	Water	1/27/2011	2/7/2011
TCS-WTR01-012511	1101544-17	Water	1/25/2011	2/2/2011

### **2. Holding Times**

The samples were analyzed within the required holding time limit of 14 days from sample collection.

### **3. Blanks**

Method blanks were analyzed with the total VOC analyses. The method blanks were free of target compound contamination above the reporting limit.

### **4. Surrogate Results**

The surrogate recovery results were within the laboratory-established quality control (QC) limits.

Data Validation Report  
Tuchman Cleaners Site  
ALS Environmental  
Laboratory Project #: 1101544

## **5. Laboratory Control Sample (LCS) Results**

The LCS recoveries were within laboratory QC limits.

## **6. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results**

ALS analyzed an MS and MSDs using samples from the Tuchman Cleaners Site. The percent recoveries and relative percent differences (RPD) were acceptable for the MS and MSDs that were analyzed.

## **7. Overall Assessment**

In the laboratory case narrative, ALS stated that for sample TCS-Solid01-012511, an internal standard was outside QC limits and that results should be considered estimated. It is unknown which internal standard was outside QC limits. The detected results in sample TCS-Solid01-012511 were flagged "J" as estimated.

The total VOC data are acceptable for use based on the information received.

## **TCLP VOCs BY SW-846 METHODS 1311 AND 8260**

### **1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
TCS-SB01-012411	1101544-01	Soil	1/24/2011	2/3/2011
TCS-SB02-012411	1101544-02	Soil	1/24/2011	2/3/2011
TCS-SB12-012511	1101544-03	Soil	1/25/2011	2/3/2011
TCS-SB13-012511	1101544-04	Soil	1/25/2011	2/3/2011
TCS-SB14-012511	1101544-05	Soil	1/25/2011	2/3/2011
TCS-SB15-012511	1101544-06	Soil	1/25/2011	2/3/2011
TCS-Solid1-012511	1101544-07	Solid	1/25/2011	2/3/2011

### **2. Holding Times**

The samples were analyzed within the required holding time limit of 14 days from sample collection.

Data Validation Report  
Tuchman Cleaners Site  
ALS Environmental  
Laboratory Project #: 1101544

**3. Blanks**

Method blanks were analyzed with the TCLP VOC analyses. The method blanks were free of target compound contamination above the reporting limit.

**4. Surrogate Results**

The surrogate recovery results were within the laboratory-established quality control (QC) limits.

**5. LCS Results**

The LCS recoveries were within laboratory QC limits.

**6. MS and MSD Results**

ALS analyzed an MS and MSDs using a sample from another site. Therefore, matrix interferences could not be evaluated using MS/MSD results. The percent recoveries and RPDs were acceptable for the MS and MSDs that were analyzed.

**7. Overall Assessment**

The TCLP VOC data are acceptable for use based on the information received.

Data Validation Report  
Tuchman Cleaners Site  
ALS Environmental  
Laboratory Project #: 1101544

**ATTACHMENT**

**ALS ENVIRONMENTAL  
RESULTS SUMMARY WITH QUALIFIERS**

# ALS Environmental

Date: 09-Feb-11

**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners  
**Sample ID:** TCS-SB01-012411  
**Collection Date:** 1/24/2011

**Work Order:** 1101544  
**Lab ID:** 1101544-01  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>						
1,1,1,2-Tetrachloroethane	ND		620	µg/Kg	125	2/1/2011 05:14 PM
1,1,1-Trichloroethane	ND		620	µg/Kg	125	2/1/2011 05:14 PM
1,1,2,2-Tetrachloroethane	ND		620	µg/Kg	125	2/1/2011 05:14 PM
1,1,2-Trichloroethane	ND		620	µg/Kg	125	2/1/2011 05:14 PM
1,1-Dichloroethane	ND		620	µg/Kg	125	2/1/2011 05:14 PM
1,1-Dichloroethene	ND		620	µg/Kg	125	2/1/2011 05:14 PM
1,1-Dichloropropene	ND		620	µg/Kg	125	2/1/2011 05:14 PM
1,2,3-Trichlorobenzene	ND		620	µg/Kg	125	2/1/2011 05:14 PM
1,2,3-Trichloropropane	ND		620	µg/Kg	125	2/1/2011 05:14 PM
1,2,4-Trichlorobenzene	ND		620	µg/Kg	125	2/1/2011 05:14 PM
<b>1,2,4-Trimethylbenzene</b>	<b>20,000</b>		<b>620</b>	<b>µg/Kg</b>	125	2/1/2011 05:14 PM
1,2-Dibromo-3-chloropropane	ND		620	µg/Kg	125	2/1/2011 05:14 PM
1,2-Dibromoethane	ND		620	µg/Kg	125	2/1/2011 05:14 PM
1,2-Dichlorobenzene	ND		620	µg/Kg	125	2/1/2011 05:14 PM
1,2-Dichloroethane	ND		620	µg/Kg	125	2/1/2011 05:14 PM
1,2-Dichloropropane	ND		620	µg/Kg	125	2/1/2011 05:14 PM
1,3,5-Trimethylbenzene	ND		620	µg/Kg	125	2/1/2011 05:14 PM
1,3-Dichlorobenzene	ND		620	µg/Kg	125	2/1/2011 05:14 PM
1,3-Dichloropropane	ND		620	µg/Kg	125	2/1/2011 05:14 PM
1,4-Dichlorobenzene	ND		620	µg/Kg	125	2/1/2011 05:14 PM
2,2-Dichloropropane	ND		620	µg/Kg	125	2/1/2011 05:14 PM
2-Butanone	ND		620	µg/Kg	125	2/1/2011 05:14 PM
2-Chlorotoluene	ND		620	µg/Kg	125	2/1/2011 05:14 PM
2-Hexanone	ND		620	µg/Kg	125	2/1/2011 05:14 PM
4-Chlorotoluene	ND		620	µg/Kg	125	2/1/2011 05:14 PM
4-Methyl-2-pentanone	ND		620	µg/Kg	125	2/1/2011 05:14 PM
Acetone	ND		620	µg/Kg	125	2/1/2011 05:14 PM
Benzene	ND		620	µg/Kg	125	2/1/2011 05:14 PM
Bromobenzene	ND		620	µg/Kg	125	2/1/2011 05:14 PM
Bromochloromethane	ND		620	µg/Kg	125	2/1/2011 05:14 PM
Bromodichloromethane	ND		620	µg/Kg	125	2/1/2011 05:14 PM
Bromoform	ND		620	µg/Kg	125	2/1/2011 05:14 PM
Bromomethane	ND		620	µg/Kg	125	2/1/2011 05:14 PM
Carbon disulfide	ND		620	µg/Kg	125	2/1/2011 05:14 PM
Carbon tetrachloride	ND		620	µg/Kg	125	2/1/2011 05:14 PM
Chlorobenzene	ND		620	µg/Kg	125	2/1/2011 05:14 PM
Chloroethane	ND		620	µg/Kg	125	2/1/2011 05:14 PM
Chloroform	ND		620	µg/Kg	125	2/1/2011 05:14 PM
Chloromethane	ND		620	µg/Kg	125	2/1/2011 05:14 PM

Note:

# ALS Environmental

Date: 09-Feb-11

**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners  
**Sample ID:** TCS-SB01-012411  
**Collection Date:** 1/24/2011

**Work Order:** 1101544  
**Lab ID:** 1101544-01  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		620	µg/Kg	125	2/1/2011 05:14 PM
cis-1,3-Dichloropropene	ND		620	µg/Kg	125	2/1/2011 05:14 PM
Dibromochloromethane	ND		620	µg/Kg	125	2/1/2011 05:14 PM
Dibromomethane	ND		620	µg/Kg	125	2/1/2011 05:14 PM
Dichlorodifluoromethane	ND		620	µg/Kg	125	2/1/2011 05:14 PM
Ethylbenzene	ND		620	µg/Kg	125	2/1/2011 05:14 PM
Hexachlorobutadiene	ND		620	µg/Kg	125	2/1/2011 05:14 PM
<b>Isopropylbenzene</b>	<b>980</b>		<b>620</b>	<b>µg/Kg</b>	125	2/1/2011 05:14 PM
m,p-Xylene	ND		620	µg/Kg	125	2/1/2011 05:14 PM
Methyl tert-butyl ether	ND		620	µg/Kg	125	2/1/2011 05:14 PM
Methylene chloride	ND		620	µg/Kg	125	2/1/2011 05:14 PM
Naphthalene	ND		620	µg/Kg	125	2/1/2011 05:14 PM
<b>n-Butylbenzene</b>	<b>3,100</b>		<b>620</b>	<b>µg/Kg</b>	125	2/1/2011 05:14 PM
<b>n-Propylbenzene</b>	<b>4,200</b>		<b>620</b>	<b>µg/Kg</b>	125	2/1/2011 05:14 PM
o-Xylene	ND		620	µg/Kg	125	2/1/2011 05:14 PM
<b>p-Isopropyltoluene</b>	<b>2,100</b>		<b>620</b>	<b>µg/Kg</b>	125	2/1/2011 05:14 PM
<b>sec-Butylbenzene</b>	<b>6,500</b>		<b>620</b>	<b>µg/Kg</b>	125	2/1/2011 05:14 PM
Styrene	ND		620	µg/Kg	125	2/1/2011 05:14 PM
tert-Butylbenzene	ND		620	µg/Kg	125	2/1/2011 05:14 PM
Tetrachloroethene	ND		620	µg/Kg	125	2/1/2011 05:14 PM
Toluene	ND		620	µg/Kg	125	2/1/2011 05:14 PM
trans-1,2-Dichloroethene	ND		620	µg/Kg	125	2/1/2011 05:14 PM
trans-1,3-Dichloropropene	ND		620	µg/Kg	125	2/1/2011 05:14 PM
Trichloroethene	ND		620	µg/Kg	125	2/1/2011 05:14 PM
Trichlorofluoromethane	ND		620	µg/Kg	125	2/1/2011 05:14 PM
Vinyl chloride	ND		620	µg/Kg	125	2/1/2011 05:14 PM
Xylenes, Total	ND		620	µg/Kg	125	2/1/2011 05:14 PM
Surr: 4-Bromofluorobenzene	99.1		75-129	%REC	125	2/1/2011 05:14 PM
Surr: Dibromofluoromethane	97.3		80-125	%REC	125	2/1/2011 05:14 PM
Surr: Toluene-d8	93.2		90-129	%REC	125	2/1/2011 05:14 PM
<b>TCLP VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260</b>	Prep Date: <b>2/1/2011</b>	Analyst: <b>LAK</b>	
1,1-Dichloroethene	ND		0.050	mg/L	10	2/3/2011 03:12 PM
1,2-Dichloroethane	ND		0.050	mg/L	10	2/3/2011 03:12 PM
1,4-Dichlorobenzene	ND		0.050	mg/L	10	2/3/2011 03:12 PM
2-Butanone	ND		0.050	mg/L	10	2/3/2011 03:12 PM
Benzene	ND		0.050	mg/L	10	2/3/2011 03:12 PM
Carbon tetrachloride	ND		0.050	mg/L	10	2/3/2011 03:12 PM
Chlorobenzene	ND		0.050	mg/L	10	2/3/2011 03:12 PM
Chloroform	ND		0.050	mg/L	10	2/3/2011 03:12 PM
<b>Tetrachloroethene</b>	<b>0.085</b>		<b>0.050</b>	<b>mg/L</b>	10	2/3/2011 03:12 PM

Note:

**ALS Environmental****Date:** 09-Feb-11**Client:** Weston Solutions**Project:** 20405.012.001.1323: Tuchman Cleaners**Work Order:** 1101544**Sample ID:** TCS-SB01-012411**Lab ID:** 1101544-01**Collection Date:** 1/24/2011**Matrix:** SOIL

<b>Analyses</b>	<b>Result</b>	<b>Qual</b>	<b>Report Limit</b>	<b>Units</b>	<b>Dilution Factor</b>	<b>Date Analyzed</b>
Trichloroethene	ND		0.050	mg/L	10	2/3/2011 03:12 PM
Vinyl chloride	ND		0.050	mg/L	10	2/3/2011 03:12 PM
<i>Surr: Bromofluorobenzene</i>	98.5		70-130	%REC	10	2/3/2011 03:12 PM
<i>Surr: Dibromofluoromethane</i>	106		70-130	%REC	10	2/3/2011 03:12 PM
<i>Surr: Toluene-d8</i>	98.7		70-130	%REC	10	2/3/2011 03:12 PM

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**Note:**

**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners  
**Sample ID:** TCS-SB02-012411  
**Collection Date:** 1/24/2011

**Work Order:** 1101544  
**Lab ID:** 1101544-02  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>						
1,1,1,2-Tetrachloroethane	ND		25	µg/Kg	5	2/2/2011 01:34 PM
1,1,1-Trichloroethane	ND		25	µg/Kg	5	2/2/2011 01:34 PM
1,1,2,2-Tetrachloroethane	ND		25	µg/Kg	5	2/2/2011 01:34 PM
1,1,2-Trichloroethane	ND		25	µg/Kg	5	2/2/2011 01:34 PM
1,1-Dichloroethane	ND		25	µg/Kg	5	2/2/2011 01:34 PM
1,1-Dichloroethene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
1,1-Dichloropropene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
1,2,3-Trichlorobenzene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
1,2,3-Trichloropropane	ND		25	µg/Kg	5	2/2/2011 01:34 PM
1,2,4-Trichlorobenzene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
1,2,4-Trimethylbenzene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
1,2-Dibromo-3-chloropropane	ND		25	µg/Kg	5	2/2/2011 01:34 PM
1,2-Dibromoethane	ND		25	µg/Kg	5	2/2/2011 01:34 PM
1,2-Dichlorobenzene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
1,2-Dichloroethane	ND		25	µg/Kg	5	2/2/2011 01:34 PM
1,2-Dichloropropane	ND		25	µg/Kg	5	2/2/2011 01:34 PM
1,3,5-Trimethylbenzene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
1,3-Dichlorobenzene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
1,3-Dichloropropane	ND		25	µg/Kg	5	2/2/2011 01:34 PM
1,4-Dichlorobenzene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
2,2-Dichloropropane	ND		25	µg/Kg	5	2/2/2011 01:34 PM
2-Butanone	ND		25	µg/Kg	5	2/2/2011 01:34 PM
2-Chlorotoluene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
2-Hexanone	ND		25	µg/Kg	5	2/2/2011 01:34 PM
4-Chlorotoluene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
4-Methyl-2-pentanone	ND		25	µg/Kg	5	2/2/2011 01:34 PM
Acetone	ND		25	µg/Kg	5	2/2/2011 01:34 PM
Benzene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
Bromobenzene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
Bromochloromethane	ND		25	µg/Kg	5	2/2/2011 01:34 PM
Bromodichloromethane	ND		25	µg/Kg	5	2/2/2011 01:34 PM
Bromoform	ND		25	µg/Kg	5	2/2/2011 01:34 PM
Bromomethane	ND		25	µg/Kg	5	2/2/2011 01:34 PM
Carbon disulfide	ND		25	µg/Kg	5	2/2/2011 01:34 PM
Carbon tetrachloride	ND		25	µg/Kg	5	2/2/2011 01:34 PM
Chlorobenzene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
Chloroethane	ND		25	µg/Kg	5	2/2/2011 01:34 PM
Chloroform	ND		25	µg/Kg	5	2/2/2011 01:34 PM
Chloromethane	ND		25	µg/Kg	5	2/2/2011 01:34 PM

Note:

# ALS Environmental

Date: 09-Feb-11

**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners  
**Sample ID:** TCS-SB02-012411  
**Collection Date:** 1/24/2011

**Work Order:** 1101544  
**Lab ID:** 1101544-02  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
cis-1,3-Dichloropropene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
Dibromochloromethane	ND		25	µg/Kg	5	2/2/2011 01:34 PM
Dibromomethane	ND		25	µg/Kg	5	2/2/2011 01:34 PM
Dichlorodifluoromethane	ND		25	µg/Kg	5	2/2/2011 01:34 PM
Ethylbenzene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
Hexachlorobutadiene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
Isopropylbenzene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
m,p-Xylene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
Methyl tert-butyl ether	ND		25	µg/Kg	5	2/2/2011 01:34 PM
Methylene chloride	ND		25	µg/Kg	5	2/2/2011 01:34 PM
Naphthalene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
n-Butylbenzene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
n-Propylbenzene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
o-Xylene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
p-Isopropyltoluene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
sec-Butylbenzene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
Styrene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
tert-Butylbenzene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
<b>Tetrachloroethene</b>	<b>4,000</b>		<b>620</b>	<b>µg/Kg</b>	125	2/1/2011 05:44 PM
Toluene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
trans-1,2-Dichloroethene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
trans-1,3-Dichloropropene	ND		25	µg/Kg	5	2/2/2011 01:34 PM
<b>Trichloroethene</b>	<b>29</b>		<b>25</b>	<b>µg/Kg</b>	5	2/2/2011 01:34 PM
Trichlorofluoromethane	ND		25	µg/Kg	5	2/2/2011 01:34 PM
Vinyl chloride	ND		25	µg/Kg	5	2/2/2011 01:34 PM
Xylenes, Total	ND		25	µg/Kg	5	2/2/2011 01:34 PM
Surr: 4-Bromofluorobenzene	114		75-129	%REC	5	2/2/2011 01:34 PM
Surr: Dibromofluoromethane	110		80-125	%REC	5	2/2/2011 01:34 PM
Surr: Toluene-d8	93.3		90-129	%REC	5	2/2/2011 01:34 PM
<b>TCLP VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260</b>	Prep Date: <b>2/1/2011</b>	Analyst: <b>LAK</b>	
1,1-Dichloroethene	ND		0.050	mg/L	10	2/3/2011 03:42 PM
1,2-Dichloroethane	ND		0.050	mg/L	10	2/3/2011 03:42 PM
1,4-Dichlorobenzene	ND		0.050	mg/L	10	2/3/2011 03:42 PM
2-Butanone	ND		0.050	mg/L	10	2/3/2011 03:42 PM
Benzene	ND		0.050	mg/L	10	2/3/2011 03:42 PM
Carbon tetrachloride	ND		0.050	mg/L	10	2/3/2011 03:42 PM
Chlorobenzene	ND		0.050	mg/L	10	2/3/2011 03:42 PM
Chloroform	ND		0.050	mg/L	10	2/3/2011 03:42 PM
<b>Tetrachloroethene</b>	<b>0.26</b>		<b>0.050</b>	<b>mg/L</b>	10	2/3/2011 03:42 PM

Note:

**ALS Environmental****Date:** 09-Feb-11

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**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners                   **Work Order:** 1101544  
**Sample ID:** TCS-SB02-012411                                   **Lab ID:** 1101544-02  
**Collection Date:** 1/24/2011                                   **Matrix:** SOIL

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<b>Analyses</b>	<b>Result</b>	<b>Qual</b>	<b>Report Limit</b>	<b>Units</b>	<b>Dilution Factor</b>	<b>Date Analyzed</b>
Trichloroethene	ND		0.050	mg/L	10	2/3/2011 03:42 PM
Vinyl chloride	ND		0.050	mg/L	10	2/3/2011 03:42 PM
<i>Surr: Bromofluorobenzene</i>	96.5		70-130	%REC	10	2/3/2011 03:42 PM
<i>Surr: Dibromofluoromethane</i>	107		70-130	%REC	10	2/3/2011 03:42 PM
<i>Surr: Toluene-d8</i>	97.5		70-130	%REC	10	2/3/2011 03:42 PM

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**Note:**

**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners  
**Sample ID:** TCS-SB12-012511  
**Collection Date:** 1/25/2011

**Work Order:** 1101544  
**Lab ID:** 1101544-03  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>						
1,1,1,2-Tetrachloroethane	ND		620	µg/Kg	125	2/1/2011 06:15 PM
1,1,1-Trichloroethane	ND		620	µg/Kg	125	2/1/2011 06:15 PM
1,1,2,2-Tetrachloroethane	ND		620	µg/Kg	125	2/1/2011 06:15 PM
1,1,2-Trichloroethane	ND		620	µg/Kg	125	2/1/2011 06:15 PM
1,1-Dichloroethane	ND		620	µg/Kg	125	2/1/2011 06:15 PM
1,1-Dichloroethene	ND		620	µg/Kg	125	2/1/2011 06:15 PM
1,1-Dichloropropene	ND		620	µg/Kg	125	2/1/2011 06:15 PM
1,2,3-Trichlorobenzene	ND		620	µg/Kg	125	2/1/2011 06:15 PM
1,2,3-Trichloropropane	ND		620	µg/Kg	125	2/1/2011 06:15 PM
1,2,4-Trichlorobenzene	ND		620	µg/Kg	125	2/1/2011 06:15 PM
1,2,4-Trimethylbenzene	ND		620	µg/Kg	125	2/1/2011 06:15 PM
1,2-Dibromo-3-chloropropane	ND		620	µg/Kg	125	2/1/2011 06:15 PM
1,2-Dibromoethane	ND		620	µg/Kg	125	2/1/2011 06:15 PM
1,2-Dichlorobenzene	ND		620	µg/Kg	125	2/1/2011 06:15 PM
1,2-Dichloroethane	ND		620	µg/Kg	125	2/1/2011 06:15 PM
1,2-Dichloropropane	ND		620	µg/Kg	125	2/1/2011 06:15 PM
1,3,5-Trimethylbenzene	ND		620	µg/Kg	125	2/1/2011 06:15 PM
1,3-Dichlorobenzene	ND		620	µg/Kg	125	2/1/2011 06:15 PM
1,3-Dichloropropane	ND		620	µg/Kg	125	2/1/2011 06:15 PM
1,4-Dichlorobenzene	ND		620	µg/Kg	125	2/1/2011 06:15 PM
2,2-Dichloropropane	ND		620	µg/Kg	125	2/1/2011 06:15 PM
2-Butanone	ND		620	µg/Kg	125	2/1/2011 06:15 PM
2-Chlorotoluene	ND		620	µg/Kg	125	2/1/2011 06:15 PM
2-Hexanone	ND		620	µg/Kg	125	2/1/2011 06:15 PM
4-Chlorotoluene	ND		620	µg/Kg	125	2/1/2011 06:15 PM
4-Methyl-2-pentanone	ND		620	µg/Kg	125	2/1/2011 06:15 PM
Acetone	ND		620	µg/Kg	125	2/1/2011 06:15 PM
Benzene	ND		620	µg/Kg	125	2/1/2011 06:15 PM
Bromobenzene	ND		620	µg/Kg	125	2/1/2011 06:15 PM
Bromochloromethane	ND		620	µg/Kg	125	2/1/2011 06:15 PM
Bromodichloromethane	ND		620	µg/Kg	125	2/1/2011 06:15 PM
Bromoform	ND		620	µg/Kg	125	2/1/2011 06:15 PM
Bromomethane	ND		620	µg/Kg	125	2/1/2011 06:15 PM
Carbon disulfide	ND		620	µg/Kg	125	2/1/2011 06:15 PM
Carbon tetrachloride	ND		620	µg/Kg	125	2/1/2011 06:15 PM
Chlorobenzene	ND		620	µg/Kg	125	2/1/2011 06:15 PM
Chloroethane	ND		620	µg/Kg	125	2/1/2011 06:15 PM
Chloroform	ND		620	µg/Kg	125	2/1/2011 06:15 PM
Chloromethane	ND		620	µg/Kg	125	2/1/2011 06:15 PM

Note:

# ALS Environmental

Date: 09-Feb-11

**Client:** Weston Solutions

**Project:** 20405.012.001.1323: Tuchman Cleaners

**Work Order:** 1101544

**Sample ID:** TCS-SB12-012511

**Lab ID:** 1101544-03

**Collection Date:** 1/25/2011

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		620	µg/Kg	125	2/1/2011 06:15 PM
cis-1,3-Dichloropropene	ND		620	µg/Kg	125	2/1/2011 06:15 PM
Dibromochloromethane	ND		620	µg/Kg	125	2/1/2011 06:15 PM
Dibromomethane	ND		620	µg/Kg	125	2/1/2011 06:15 PM
Dichlorodifluoromethane	ND		620	µg/Kg	125	2/1/2011 06:15 PM
Ethylbenzene	ND		620	µg/Kg	125	2/1/2011 06:15 PM
Hexachlorobutadiene	ND		620	µg/Kg	125	2/1/2011 06:15 PM
<b>Isopropylbenzene</b>	<b>980</b>		<b>620</b>	<b>µg/Kg</b>	125	2/1/2011 06:15 PM
m,p-Xylene	ND		620	µg/Kg	125	2/1/2011 06:15 PM
Methyl tert-butyl ether	ND		620	µg/Kg	125	2/1/2011 06:15 PM
Methylene chloride	ND		620	µg/Kg	125	2/1/2011 06:15 PM
Naphthalene	ND		620	µg/Kg	125	2/1/2011 06:15 PM
<b>n-Butylbenzene</b>	<b>3,900</b>		<b>620</b>	<b>µg/Kg</b>	125	2/1/2011 06:15 PM
<b>n-Propylbenzene</b>	<b>3,400</b>		<b>620</b>	<b>µg/Kg</b>	125	2/1/2011 06:15 PM
o-Xylene	ND		620	µg/Kg	125	2/1/2011 06:15 PM
p-Isopropyltoluene	ND		620	µg/Kg	125	2/1/2011 06:15 PM
<b>sec-Butylbenzene</b>	<b>11,000</b>		<b>620</b>	<b>µg/Kg</b>	125	2/1/2011 06:15 PM
Styrene	ND		620	µg/Kg	125	2/1/2011 06:15 PM
<b>tert-Butylbenzene</b>	<b>1,200</b>		<b>620</b>	<b>µg/Kg</b>	125	2/1/2011 06:15 PM
Tetrachloroethene	ND		620	µg/Kg	125	2/1/2011 06:15 PM
Toluene	ND		620	µg/Kg	125	2/1/2011 06:15 PM
trans-1,2-Dichloroethene	ND		620	µg/Kg	125	2/1/2011 06:15 PM
trans-1,3-Dichloropropene	ND		620	µg/Kg	125	2/1/2011 06:15 PM
Trichloroethene	ND		620	µg/Kg	125	2/1/2011 06:15 PM
Trichlorofluoromethane	ND		620	µg/Kg	125	2/1/2011 06:15 PM
Vinyl chloride	ND		620	µg/Kg	125	2/1/2011 06:15 PM
Xylenes, Total	ND		620	µg/Kg	125	2/1/2011 06:15 PM
Surr: 4-Bromofluorobenzene	99.3		75-129	%REC	125	2/1/2011 06:15 PM
Surr: Dibromofluoromethane	99.5		80-125	%REC	125	2/1/2011 06:15 PM
Surr: Toluene-d8	94.9		90-129	%REC	125	2/1/2011 06:15 PM
<b>TCLP VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260</b>	Prep Date: <b>2/1/2011</b>	Analyst: <b>LAK</b>	
1,1-Dichloroethene	ND		0.050	mg/L	10	2/3/2011 04:12 PM
1,2-Dichloroethane	ND		0.050	mg/L	10	2/3/2011 04:12 PM
1,4-Dichlorobenzene	ND		0.050	mg/L	10	2/3/2011 04:12 PM
2-Butanone	ND		0.050	mg/L	10	2/3/2011 04:12 PM
Benzene	ND		0.050	mg/L	10	2/3/2011 04:12 PM
Carbon tetrachloride	ND		0.050	mg/L	10	2/3/2011 04:12 PM
Chlorobenzene	ND		0.050	mg/L	10	2/3/2011 04:12 PM
Chloroform	ND		0.050	mg/L	10	2/3/2011 04:12 PM
<b>Tetrachloroethene</b>	<b>0.076</b>		<b>0.050</b>	<b>mg/L</b>	10	2/3/2011 04:12 PM

Note:

**ALS Environmental****Date:** 09-Feb-11**Client:** Weston Solutions**Project:** 20405.012.001.1323: Tuchman Cleaners**Work Order:** 1101544**Sample ID:** TCS-SB12-012511**Lab ID:** 1101544-03**Collection Date:** 1/25/2011**Matrix:** SOIL

<b>Analyses</b>	<b>Result</b>	<b>Qual</b>	<b>Report Limit</b>	<b>Units</b>	<b>Dilution Factor</b>	<b>Date Analyzed</b>
Trichloroethene	ND		0.050	mg/L	10	2/3/2011 04:12 PM
Vinyl chloride	ND		0.050	mg/L	10	2/3/2011 04:12 PM
<i>Surr: Bromofluorobenzene</i>	101		70-130	%REC	10	2/3/2011 04:12 PM
<i>Surr: Dibromofluoromethane</i>	105		70-130	%REC	10	2/3/2011 04:12 PM
<i>Surr: Toluene-d8</i>	98.6		70-130	%REC	10	2/3/2011 04:12 PM

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**Note:**

**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners  
**Sample ID:** TCS-SB13-012511  
**Collection Date:** 1/25/2011

**Work Order:** 1101544  
**Lab ID:** 1101544-04  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>						
1,1,1,2-Tetrachloroethane	ND		25	µg/Kg	5	2/2/2011 02:35 PM
1,1,1-Trichloroethane	ND		25	µg/Kg	5	2/2/2011 02:35 PM
1,1,2,2-Tetrachloroethane	ND		25	µg/Kg	5	2/2/2011 02:35 PM
1,1,2-Trichloroethane	ND		25	µg/Kg	5	2/2/2011 02:35 PM
1,1-Dichloroethane	ND		25	µg/Kg	5	2/2/2011 02:35 PM
1,1-Dichloroethene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
1,1-Dichloropropene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
1,2,3-Trichlorobenzene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
1,2,3-Trichloropropane	ND		25	µg/Kg	5	2/2/2011 02:35 PM
1,2,4-Trichlorobenzene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
1,2,4-Trimethylbenzene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
1,2-Dibromo-3-chloropropane	ND		25	µg/Kg	5	2/2/2011 02:35 PM
1,2-Dibromoethane	ND		25	µg/Kg	5	2/2/2011 02:35 PM
1,2-Dichlorobenzene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
1,2-Dichloroethane	ND		25	µg/Kg	5	2/2/2011 02:35 PM
1,2-Dichloropropane	ND		25	µg/Kg	5	2/2/2011 02:35 PM
1,3,5-Trimethylbenzene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
1,3-Dichlorobenzene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
1,3-Dichloropropane	ND		25	µg/Kg	5	2/2/2011 02:35 PM
1,4-Dichlorobenzene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
2,2-Dichloropropane	ND		25	µg/Kg	5	2/2/2011 02:35 PM
2-Butanone	ND		25	µg/Kg	5	2/2/2011 02:35 PM
2-Chlorotoluene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
2-Hexanone	ND		25	µg/Kg	5	2/2/2011 02:35 PM
4-Chlorotoluene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
4-Methyl-2-pentanone	ND		25	µg/Kg	5	2/2/2011 02:35 PM
Acetone	ND		25	µg/Kg	5	2/2/2011 02:35 PM
Benzene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
Bromobenzene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
Bromochloromethane	ND		25	µg/Kg	5	2/2/2011 02:35 PM
Bromodichloromethane	ND		25	µg/Kg	5	2/2/2011 02:35 PM
Bromoform	ND		25	µg/Kg	5	2/2/2011 02:35 PM
Bromomethane	ND		25	µg/Kg	5	2/2/2011 02:35 PM
Carbon disulfide	ND		25	µg/Kg	5	2/2/2011 02:35 PM
Carbon tetrachloride	ND		25	µg/Kg	5	2/2/2011 02:35 PM
Chlorobenzene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
Chloroethane	ND		25	µg/Kg	5	2/2/2011 02:35 PM
Chloroform	ND		25	µg/Kg	5	2/2/2011 02:35 PM
Chloromethane	ND		25	µg/Kg	5	2/2/2011 02:35 PM

Note:

# ALS Environmental

Date: 09-Feb-11

**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners  
**Sample ID:** TCS-SB13-012511  
**Collection Date:** 1/25/2011

**Work Order:** 1101544  
**Lab ID:** 1101544-04  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
cis-1,3-Dichloropropene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
Dibromochloromethane	ND		25	µg/Kg	5	2/2/2011 02:35 PM
Dibromomethane	ND		25	µg/Kg	5	2/2/2011 02:35 PM
Dichlorodifluoromethane	ND		25	µg/Kg	5	2/2/2011 02:35 PM
Ethylbenzene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
Hexachlorobutadiene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
Isopropylbenzene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
m,p-Xylene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
Methyl tert-butyl ether	ND		25	µg/Kg	5	2/2/2011 02:35 PM
Methylene chloride	ND		25	µg/Kg	5	2/2/2011 02:35 PM
Naphthalene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
n-Butylbenzene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
n-Propylbenzene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
o-Xylene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
p-Isopropyltoluene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
<b>sec-Butylbenzene</b>	<b>39</b>		<b>25</b>	<b>µg/Kg</b>	5	2/2/2011 02:35 PM
Styrene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
tert-Butylbenzene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
<b>Tetrachloroethene</b>	<b>35</b>		<b>25</b>	<b>µg/Kg</b>	5	2/2/2011 02:35 PM
Toluene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
trans-1,2-Dichloroethene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
trans-1,3-Dichloropropene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
Trichloroethene	ND		25	µg/Kg	5	2/2/2011 02:35 PM
Trichlorofluoromethane	ND		25	µg/Kg	5	2/2/2011 02:35 PM
Vinyl chloride	ND		25	µg/Kg	5	2/2/2011 02:35 PM
Xylenes, Total	ND		25	µg/Kg	5	2/2/2011 02:35 PM
Surr: 4-Bromofluorobenzene	99.1		75-129	%REC	5	2/2/2011 02:35 PM
Surr: Dibromofluoromethane	92.5		80-125	%REC	5	2/2/2011 02:35 PM
Surr: Toluene-d8	90.8		90-129	%REC	5	2/2/2011 02:35 PM
<b>TCLP VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260</b>	Prep Date: <b>2/1/2011</b>	Analyst: <b>LAK</b>	
1,1-Dichloroethene	ND		0.050	mg/L	10	2/3/2011 02:43 PM
1,2-Dichloroethane	ND		0.050	mg/L	10	2/3/2011 02:43 PM
1,4-Dichlorobenzene	ND		0.050	mg/L	10	2/3/2011 02:43 PM
2-Butanone	ND		0.050	mg/L	10	2/3/2011 02:43 PM
Benzene	ND		0.050	mg/L	10	2/3/2011 02:43 PM
Carbon tetrachloride	ND		0.050	mg/L	10	2/3/2011 02:43 PM
Chlorobenzene	ND		0.050	mg/L	10	2/3/2011 02:43 PM
Chloroform	ND		0.050	mg/L	10	2/3/2011 02:43 PM
<b>Tetrachloroethene</b>	<b>0.11</b>		<b>0.050</b>	<b>mg/L</b>	10	2/3/2011 02:43 PM

Note:

**ALS Environmental****Date:** 09-Feb-11**Client:** Weston Solutions**Project:** 20405.012.001.1323: Tuchman Cleaners**Work Order:** 1101544**Sample ID:** TCS-SB13-012511**Lab ID:** 1101544-04**Collection Date:** 1/25/2011**Matrix:** SOIL

<b>Analyses</b>	<b>Result</b>	<b>Qual</b>	<b>Report Limit</b>	<b>Units</b>	<b>Dilution Factor</b>	<b>Date Analyzed</b>
Trichloroethene	ND		0.050	mg/L	10	2/3/2011 02:43 PM
Vinyl chloride	ND		0.050	mg/L	10	2/3/2011 02:43 PM
<i>Surr: Bromofluorobenzene</i>	97.2		70-130	%REC	10	2/3/2011 02:43 PM
<i>Surr: Dibromofluoromethane</i>	108		70-130	%REC	10	2/3/2011 02:43 PM
<i>Surr: Toluene-d8</i>	99.6		70-130	%REC	10	2/3/2011 02:43 PM

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**Note:**

**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners  
**Sample ID:** TCS-SB14-012511  
**Collection Date:** 1/25/2011

**Work Order:** 1101544  
**Lab ID:** 1101544-05  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>						
1,1,1,2-Tetrachloroethane	ND		25	µg/Kg	5	2/2/2011 03:36 PM
1,1,1-Trichloroethane	ND		25	µg/Kg	5	2/2/2011 03:36 PM
1,1,2,2-Tetrachloroethane	ND		25	µg/Kg	5	2/2/2011 03:36 PM
1,1,2-Trichloroethane	ND		25	µg/Kg	5	2/2/2011 03:36 PM
1,1-Dichloroethane	ND		25	µg/Kg	5	2/2/2011 03:36 PM
1,1-Dichloroethene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
1,1-Dichloropropene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
1,2,3-Trichlorobenzene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
1,2,3-Trichloropropane	ND		25	µg/Kg	5	2/2/2011 03:36 PM
1,2,4-Trichlorobenzene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
1,2,4-Trimethylbenzene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
1,2-Dibromo-3-chloropropane	ND		25	µg/Kg	5	2/2/2011 03:36 PM
1,2-Dibromoethane	ND		25	µg/Kg	5	2/2/2011 03:36 PM
1,2-Dichlorobenzene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
1,2-Dichloroethane	ND		25	µg/Kg	5	2/2/2011 03:36 PM
1,2-Dichloropropane	ND		25	µg/Kg	5	2/2/2011 03:36 PM
1,3,5-Trimethylbenzene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
1,3-Dichlorobenzene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
1,3-Dichloropropane	ND		25	µg/Kg	5	2/2/2011 03:36 PM
1,4-Dichlorobenzene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
2,2-Dichloropropane	ND		25	µg/Kg	5	2/2/2011 03:36 PM
2-Butanone	ND		25	µg/Kg	5	2/2/2011 03:36 PM
2-Chlorotoluene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
2-Hexanone	ND		25	µg/Kg	5	2/2/2011 03:36 PM
4-Chlorotoluene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
4-Methyl-2-pentanone	ND		25	µg/Kg	5	2/2/2011 03:36 PM
<b>Acetone</b>	<b>83</b>		<b>25</b>	<b>µg/Kg</b>	5	2/2/2011 03:36 PM
Benzene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
Bromobenzene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
Bromochloromethane	ND		25	µg/Kg	5	2/2/2011 03:36 PM
Bromodichloromethane	ND		25	µg/Kg	5	2/2/2011 03:36 PM
Bromoform	ND		25	µg/Kg	5	2/2/2011 03:36 PM
Bromomethane	ND		25	µg/Kg	5	2/2/2011 03:36 PM
Carbon disulfide	ND		25	µg/Kg	5	2/2/2011 03:36 PM
Carbon tetrachloride	ND		25	µg/Kg	5	2/2/2011 03:36 PM
Chlorobenzene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
Chloroethane	ND		25	µg/Kg	5	2/2/2011 03:36 PM
Chloroform	ND		25	µg/Kg	5	2/2/2011 03:36 PM
Chloromethane	ND		25	µg/Kg	5	2/2/2011 03:36 PM

Note:

# ALS Environmental

Date: 09-Feb-11

**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners  
**Sample ID:** TCS-SB14-012511  
**Collection Date:** 1/25/2011

**Work Order:** 1101544  
**Lab ID:** 1101544-05  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
cis-1,3-Dichloropropene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
Dibromochloromethane	ND		25	µg/Kg	5	2/2/2011 03:36 PM
Dibromomethane	ND		25	µg/Kg	5	2/2/2011 03:36 PM
Dichlorodifluoromethane	ND		25	µg/Kg	5	2/2/2011 03:36 PM
Ethylbenzene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
Hexachlorobutadiene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
Isopropylbenzene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
m,p-Xylene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
Methyl tert-butyl ether	ND		25	µg/Kg	5	2/2/2011 03:36 PM
Methylene chloride	ND		25	µg/Kg	5	2/2/2011 03:36 PM
Naphthalene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
<b>n-Butylbenzene</b>	<b>250</b>		<b>25</b>	<b>µg/Kg</b>	5	2/2/2011 03:36 PM
n-Propylbenzene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
o-Xylene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
p-Isopropyltoluene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
<b>sec-Butylbenzene</b>	<b>640</b>		<b>25</b>	<b>µg/Kg</b>	5	2/2/2011 03:36 PM
Styrene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
tert-Butylbenzene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
<b>Tetrachloroethene</b>	<b>680</b>		<b>25</b>	<b>µg/Kg</b>	5	2/2/2011 03:36 PM
Toluene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
trans-1,2-Dichloroethene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
trans-1,3-Dichloropropene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
Trichloroethene	ND		25	µg/Kg	5	2/2/2011 03:36 PM
Trichlorofluoromethane	ND		25	µg/Kg	5	2/2/2011 03:36 PM
Vinyl chloride	ND		25	µg/Kg	5	2/2/2011 03:36 PM
Xylenes, Total	ND		25	µg/Kg	5	2/2/2011 03:36 PM
Surr: 4-Bromofluorobenzene	92.2		75-129	%REC	5	2/2/2011 03:36 PM
Surr: Dibromofluoromethane	102		80-125	%REC	5	2/2/2011 03:36 PM
Surr: Toluene-d8	90.1		90-129	%REC	5	2/2/2011 03:36 PM
<b>TCLP VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260</b>	Prep Date: <b>2/1/2011</b>	Analyst: <b>LAK</b>	
1,1-Dichloroethene	ND		0.050	mg/L	10	2/3/2011 04:42 PM
1,2-Dichloroethane	ND		0.050	mg/L	10	2/3/2011 04:42 PM
1,4-Dichlorobenzene	ND		0.050	mg/L	10	2/3/2011 04:42 PM
2-Butanone	ND		0.050	mg/L	10	2/3/2011 04:42 PM
Benzene	ND		0.050	mg/L	10	2/3/2011 04:42 PM
Carbon tetrachloride	ND		0.050	mg/L	10	2/3/2011 04:42 PM
Chlorobenzene	ND		0.050	mg/L	10	2/3/2011 04:42 PM
Chloroform	ND		0.050	mg/L	10	2/3/2011 04:42 PM
<b>Tetrachloroethene</b>	<b>0.31</b>		<b>0.050</b>	<b>mg/L</b>	10	2/3/2011 04:42 PM

Note:

**ALS Environmental****Date:** 09-Feb-11**Client:** Weston Solutions**Project:** 20405.012.001.1323: Tuchman Cleaners**Work Order:** 1101544**Sample ID:** TCS-SB14-012511**Lab ID:** 1101544-05**Collection Date:** 1/25/2011**Matrix:** SOIL

<b>Analyses</b>	<b>Result</b>	<b>Qual</b>	<b>Report Limit</b>	<b>Units</b>	<b>Dilution Factor</b>	<b>Date Analyzed</b>
Trichloroethene	ND		0.050	mg/L	10	2/3/2011 04:42 PM
Vinyl chloride	ND		0.050	mg/L	10	2/3/2011 04:42 PM
<i>Surr: Bromofluorobenzene</i>	99.8		70-130	%REC	10	2/3/2011 04:42 PM
<i>Surr: Dibromofluoromethane</i>	108		70-130	%REC	10	2/3/2011 04:42 PM
<i>Surr: Toluene-d8</i>	99.6		70-130	%REC	10	2/3/2011 04:42 PM

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**Note:**

# ALS Environmental

Date: 09-Feb-11

**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners  
**Sample ID:** TCS-SB15-012511  
**Collection Date:** 1/25/2011

**Work Order:** 1101544  
**Lab ID:** 1101544-06  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>						
1,1,1,2-Tetrachloroethane	ND		620	µg/Kg	125	2/1/2011 07:48 PM
1,1,1-Trichloroethane	ND		620	µg/Kg	125	2/1/2011 07:48 PM
<b>1,1,2,2-Tetrachloroethane</b>	<b>11,000</b>		<b>620</b>	<b>µg/Kg</b>	125	2/1/2011 07:48 PM
1,1,2-Trichloroethane	ND		620	µg/Kg	125	2/1/2011 07:48 PM
1,1-Dichloroethane	ND		620	µg/Kg	125	2/1/2011 07:48 PM
1,1-Dichloroethene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
1,1-Dichloropropene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
1,2,3-Trichlorobenzene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
1,2,3-Trichloropropane	ND		620	µg/Kg	125	2/1/2011 07:48 PM
1,2,4-Trichlorobenzene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
<b>1,2,4-Trimethylbenzene</b>	<b>1,800</b>		<b>620</b>	<b>µg/Kg</b>	125	2/1/2011 07:48 PM
1,2-Dibromo-3-chloropropane	ND		620	µg/Kg	125	2/1/2011 07:48 PM
1,2-Dibromoethane	ND		620	µg/Kg	125	2/1/2011 07:48 PM
1,2-Dichlorobenzene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
1,2-Dichloroethane	ND		620	µg/Kg	125	2/1/2011 07:48 PM
1,2-Dichloropropane	ND		620	µg/Kg	125	2/1/2011 07:48 PM
1,3,5-Trimethylbenzene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
1,3-Dichlorobenzene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
1,3-Dichloropropane	ND		620	µg/Kg	125	2/1/2011 07:48 PM
1,4-Dichlorobenzene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
2,2-Dichloropropane	ND		620	µg/Kg	125	2/1/2011 07:48 PM
2-Butanone	ND		620	µg/Kg	125	2/1/2011 07:48 PM
2-Chlorotoluene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
<b>2-Hexanone</b>	<b>900</b>		<b>620</b>	<b>µg/Kg</b>	125	2/1/2011 07:48 PM
4-Chlorotoluene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
4-Methyl-2-pentanone	ND		620	µg/Kg	125	2/1/2011 07:48 PM
Acetone	ND		620	µg/Kg	125	2/1/2011 07:48 PM
Benzene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
Bromobenzene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
Bromochloromethane	ND		620	µg/Kg	125	2/1/2011 07:48 PM
Bromodichloromethane	ND		620	µg/Kg	125	2/1/2011 07:48 PM
Bromoform	ND		620	µg/Kg	125	2/1/2011 07:48 PM
Bromomethane	ND		620	µg/Kg	125	2/1/2011 07:48 PM
Carbon disulfide	ND		620	µg/Kg	125	2/1/2011 07:48 PM
Carbon tetrachloride	ND		620	µg/Kg	125	2/1/2011 07:48 PM
Chlorobenzene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
Chloroethane	ND		620	µg/Kg	125	2/1/2011 07:48 PM
Chloroform	ND		620	µg/Kg	125	2/1/2011 07:48 PM
Chloromethane	ND		620	µg/Kg	125	2/1/2011 07:48 PM

Note:

# ALS Environmental

Date: 09-Feb-11

**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners  
**Sample ID:** TCS-SB15-012511  
**Collection Date:** 1/25/2011

**Work Order:** 1101544  
**Lab ID:** 1101544-06  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
cis-1,3-Dichloropropene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
Dibromochloromethane	ND		620	µg/Kg	125	2/1/2011 07:48 PM
Dibromomethane	ND		620	µg/Kg	125	2/1/2011 07:48 PM
Dichlorodifluoromethane	ND		620	µg/Kg	125	2/1/2011 07:48 PM
Ethylbenzene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
Hexachlorobutadiene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
Isopropylbenzene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
m,p-Xylene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
Methyl tert-butyl ether	ND		620	µg/Kg	125	2/1/2011 07:48 PM
Methylene chloride	ND		620	µg/Kg	125	2/1/2011 07:48 PM
Naphthalene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
n-Butylbenzene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
n-Propylbenzene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
o-Xylene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
p-Isopropyltoluene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
<b>sec-Butylbenzene</b>	<b>980</b>		<b>620</b>	<b>µg/Kg</b>	125	2/1/2011 07:48 PM
Styrene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
tert-Butylbenzene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
Tetrachloroethene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
Toluene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
trans-1,2-Dichloroethene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
trans-1,3-Dichloropropene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
Trichloroethene	ND		620	µg/Kg	125	2/1/2011 07:48 PM
Trichlorofluoromethane	ND		620	µg/Kg	125	2/1/2011 07:48 PM
Vinyl chloride	ND		620	µg/Kg	125	2/1/2011 07:48 PM
Xylenes, Total	ND		620	µg/Kg	125	2/1/2011 07:48 PM
Surr: 4-Bromofluorobenzene	94.8		75-129	%REC	125	2/1/2011 07:48 PM
Surr: Dibromofluoromethane	103		80-125	%REC	125	2/1/2011 07:48 PM
Surr: Toluene-d8	102		90-129	%REC	125	2/1/2011 07:48 PM
<b>TCLP VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260</b>	Prep Date: <b>2/1/2011</b>	Analyst: <b>LAK</b>	
1,1-Dichloroethene	ND		0.050	mg/L	10	2/3/2011 05:11 PM
1,2-Dichloroethane	ND		0.050	mg/L	10	2/3/2011 05:11 PM
1,4-Dichlorobenzene	ND		0.050	mg/L	10	2/3/2011 05:11 PM
2-Butanone	ND		0.050	mg/L	10	2/3/2011 05:11 PM
Benzene	ND		0.050	mg/L	10	2/3/2011 05:11 PM
Carbon tetrachloride	ND		0.050	mg/L	10	2/3/2011 05:11 PM
Chlorobenzene	ND		0.050	mg/L	10	2/3/2011 05:11 PM
Chloroform	ND		0.050	mg/L	10	2/3/2011 05:11 PM
Tetrachloroethene	<b>0.056</b>		<b>0.050</b>	<b>mg/L</b>	10	2/3/2011 05:11 PM

Note:

**ALS Environmental****Date:** 09-Feb-11**Client:** Weston Solutions**Project:** 20405.012.001.1323: Tuchman Cleaners**Work Order:** 1101544**Sample ID:** TCS-SB15-012511**Lab ID:** 1101544-06**Collection Date:** 1/25/2011**Matrix:** SOIL

<b>Analyses</b>	<b>Result</b>	<b>Qual</b>	<b>Report Limit</b>	<b>Units</b>	<b>Dilution Factor</b>	<b>Date Analyzed</b>
Trichloroethene	ND		0.050	mg/L	10	2/3/2011 05:11 PM
Vinyl chloride	ND		0.050	mg/L	10	2/3/2011 05:11 PM
<i>Surr: Bromofluorobenzene</i>	102		70-130	%REC	10	2/3/2011 05:11 PM
<i>Surr: Dibromofluoromethane</i>	105		70-130	%REC	10	2/3/2011 05:11 PM
<i>Surr: Toluene-d8</i>	100		70-130	%REC	10	2/3/2011 05:11 PM

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**Note:**

**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners  
**Sample ID:** TCS-SOLID01-012511  
**Collection Date:** 1/25/2011

**Work Order:** 1101544  
**Lab ID:** 1101544-07  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>						
1,1,1,2-Tetrachloroethane	ND		25	µg/Kg	5	2/8/2011 11:34 AM
1,1,1-Trichloroethane	ND		25	µg/Kg	5	2/8/2011 11:34 AM
1,1,2,2-Tetrachloroethane	ND		25	µg/Kg	5	2/8/2011 11:34 AM
1,1,2-Trichloroethane	ND		25	µg/Kg	5	2/8/2011 11:34 AM
1,1-Dichloroethane	ND		25	µg/Kg	5	2/8/2011 11:34 AM
1,1-Dichloroethene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
1,1-Dichloropropene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
1,2,3-Trichlorobenzene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
1,2,3-Trichloropropane	ND		25	µg/Kg	5	2/8/2011 11:34 AM
1,2,4-Trichlorobenzene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
1,2,4-Trimethylbenzene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
1,2-Dibromo-3-chloropropane	ND		25	µg/Kg	5	2/8/2011 11:34 AM
1,2-Dibromoethane	ND		25	µg/Kg	5	2/8/2011 11:34 AM
1,2-Dichlorobenzene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
1,2-Dichloroethane	ND		25	µg/Kg	5	2/8/2011 11:34 AM
1,2-Dichloropropane	ND		25	µg/Kg	5	2/8/2011 11:34 AM
1,3,5-Trimethylbenzene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
1,3-Dichlorobenzene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
1,3-Dichloropropane	ND		25	µg/Kg	5	2/8/2011 11:34 AM
1,4-Dichlorobenzene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
2,2-Dichloropropane	ND		25	µg/Kg	5	2/8/2011 11:34 AM
2-Butanone	ND		25	µg/Kg	5	2/8/2011 11:34 AM
2-Chlorotoluene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
2-Hexanone	ND		25	µg/Kg	5	2/8/2011 11:34 AM
4-Chlorotoluene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
4-Methyl-2-pentanone	ND		25	µg/Kg	5	2/8/2011 11:34 AM
Acetone	ND		25	µg/Kg	5	2/8/2011 11:34 AM
Benzene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
Bromobenzene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
Bromochloromethane	ND		25	µg/Kg	5	2/8/2011 11:34 AM
Bromodichloromethane	ND		25	µg/Kg	5	2/8/2011 11:34 AM
Bromoform	ND		25	µg/Kg	5	2/8/2011 11:34 AM
Bromomethane	ND		25	µg/Kg	5	2/8/2011 11:34 AM
Carbon disulfide	ND		25	µg/Kg	5	2/8/2011 11:34 AM
Carbon tetrachloride	ND		25	µg/Kg	5	2/8/2011 11:34 AM
Chlorobenzene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
Chloroethane	ND		25	µg/Kg	5	2/8/2011 11:34 AM
Chloroform	ND		25	µg/Kg	5	2/8/2011 11:34 AM
Chloromethane	ND		25	µg/Kg	5	2/8/2011 11:34 AM

Note:

## ALS Environmental

Date: 09-Feb-11

**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners  
**Sample ID:** TCS-SOLID01-012511  
**Collection Date:** 1/25/2011

**Work Order:** 1101544  
**Lab ID:** 1101544-07  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
cis-1,3-Dichloropropene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
Dibromochloromethane	ND		25	µg/Kg	5	2/8/2011 11:34 AM
Dibromomethane	ND		25	µg/Kg	5	2/8/2011 11:34 AM
Dichlorodifluoromethane	ND		25	µg/Kg	5	2/8/2011 11:34 AM
Ethylbenzene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
Hexachlorobutadiene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
Isopropylbenzene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
m,p-Xylene	34 J		25	µg/Kg	5	2/8/2011 11:34 AM
Methyl tert-butyl ether	ND		25	µg/Kg	5	2/8/2011 11:34 AM
Methylene chloride	ND		25	µg/Kg	5	2/8/2011 11:34 AM
Naphthalene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
n-Butylbenzene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
n-Propylbenzene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
o-Xylene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
p-Isopropyltoluene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
sec-Butylbenzene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
Styrene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
tert-Butylbenzene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
Tetrachloroethene	31 J		25	µg/Kg	5	2/8/2011 11:34 AM
Toluene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
trans-1,2-Dichloroethene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
trans-1,3-Dichloropropene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
Trichloroethene	ND		25	µg/Kg	5	2/8/2011 11:34 AM
Trichlorofluoromethane	ND		25	µg/Kg	5	2/8/2011 11:34 AM
Vinyl chloride	ND		25	µg/Kg	5	2/8/2011 11:34 AM
Xylenes, Total	48 J		25	µg/Kg	5	2/8/2011 11:34 AM
Surr: 4-Bromofluorobenzene	122		75-129	%REC	5	2/8/2011 11:34 AM
Surr: Dibromofluoromethane	90.1		80-125	%REC	5	2/8/2011 11:34 AM
Surr: Toluene-d8	89.6	S	90-129	%REC	5	2/8/2011 11:34 AM

## TCLP VOLATILE ORGANIC COMPOUNDS

		SW8260	Prep Date: 2/1/2011	Analyst: LAK
1,1-Dichloroethene	ND	0.050	mg/L	10
1,2-Dichloroethane	ND	0.050	mg/L	10
1,4-Dichlorobenzene	ND	0.050	mg/L	10
2-Butanone	ND	0.050	mg/L	10
Benzene	ND	0.050	mg/L	10
Carbon tetrachloride	ND	0.050	mg/L	10
Chlorobenzene	ND	0.050	mg/L	10
Chloroform	ND	0.050	mg/L	10
Tetrachloroethene	ND	0.050	mg/L	10

Note:

2/8/11

**ALS Environmental****Date:** 09-Feb-11

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**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners  
**Sample ID:** TCS-SOLID01-012511  
**Collection Date:** 1/25/2011

**Work Order:** 1101544  
**Lab ID:** 1101544-07  
**Matrix:** SOIL

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<b>Analyses</b>	<b>Result</b>	<b>Qual</b>	<b>Report Limit</b>	<b>Units</b>	<b>Dilution Factor</b>	<b>Date Analyzed</b>
Trichloroethene	ND		0.050	mg/L	10	2/3/2011 01:43 PM
Vinyl chloride	ND		0.050	mg/L	10	2/3/2011 01:43 PM
<i>Surr: Bromofluorobenzene</i>	98.4		70-130	%REC	10	2/3/2011 01:43 PM
<i>Surr: Dibromofluoromethane</i>	108		70-130	%REC	10	2/3/2011 01:43 PM
<i>Surr: Toluene-d8</i>	97.5		70-130	%REC	10	2/3/2011 01:43 PM

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**Note:**

Client: Weston Solutions

Project: 20405.012.001.1323: Tuchman Cleaners

Work Order: 1101544

Sample ID: TCS-GW01-012511

Lab ID: 1101544-08

Collection Date: 1/25/2011

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>						
1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	2/2/2011 04:25 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	2/2/2011 04:25 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	2/2/2011 04:25 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	2/2/2011 04:25 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	2/2/2011 04:25 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	2/2/2011 04:25 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	2/2/2011 04:25 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	2/2/2011 04:25 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	2/2/2011 04:25 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	2/2/2011 04:25 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	2/2/2011 04:25 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	2/2/2011 04:25 PM
2-Butanone	ND		5.0	µg/L	1	2/2/2011 04:25 PM
2-Chlorotoluene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
2-Hexanone	ND		5.0	µg/L	1	2/2/2011 04:25 PM
4-Chlorotoluene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	2/2/2011 04:25 PM
Acetone	ND		5.0	µg/L	1	2/2/2011 04:25 PM
Benzene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
Bromobenzene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
Bromochloromethane	ND		5.0	µg/L	1	2/2/2011 04:25 PM
Bromodichloromethane	ND		5.0	µg/L	1	2/2/2011 04:25 PM
Bromoform	ND		5.0	µg/L	1	2/2/2011 04:25 PM
Bromomethane	ND		5.0	µg/L	1	2/2/2011 04:25 PM
Carbon disulfide	ND		5.0	µg/L	1	2/2/2011 04:25 PM
Carbon tetrachloride	ND		5.0	µg/L	1	2/2/2011 04:25 PM
Chlorobenzene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
Chloroethane	ND		5.0	µg/L	1	2/2/2011 04:25 PM
Chloroform	ND		5.0	µg/L	1	2/2/2011 04:25 PM
Chloromethane	ND		5.0	µg/L	1	2/2/2011 04:25 PM

Note:

# ALS Environmental

Date: 09-Feb-11

**Client:** Weston Solutions

**Project:** 20405.012.001.1323: Tuchman Cleaners

**Work Order:** 1101544

**Sample ID:** TCS-GW01-012511

**Lab ID:** 1101544-08

**Collection Date:** 1/25/2011

**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	110		5.0	µg/L	1	2/2/2011 04:25 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
Dibromochloromethane	ND		5.0	µg/L	1	2/2/2011 04:25 PM
Dibromomethane	ND		5.0	µg/L	1	2/2/2011 04:25 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	2/2/2011 04:25 PM
Ethylbenzene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
Isopropylbenzene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
m,p-Xylene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	2/2/2011 04:25 PM
Methylene chloride	ND		5.0	µg/L	1	2/2/2011 04:25 PM
Naphthalene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
n-Butylbenzene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
n-Propylbenzene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
o-Xylene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
sec-Butylbenzene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
Styrene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
tert-Butylbenzene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
<b>Tetrachloroethene</b>	<b>2,100</b>		<b>500</b>	<b>µg/L</b>	100	2/7/2011 02:33 PM
Toluene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	2/2/2011 04:25 PM
<b>Trichloroethene</b>	<b>120</b>		<b>5.0</b>	<b>µg/L</b>	1	2/2/2011 04:25 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	2/2/2011 04:25 PM
Vinyl chloride	ND		2.0	µg/L	1	2/2/2011 04:25 PM
Xylenes, Total	ND		5.0	µg/L	1	2/2/2011 04:25 PM
Surr: 4-Bromofluorobenzene	98.9		61-131	%REC	1	2/2/2011 04:25 PM
Surr: Dibromofluoromethane	101		87-126	%REC	1	2/2/2011 04:25 PM
Surr: Toluene-d8	98.5		84-111	%REC	1	2/2/2011 04:25 PM

Note:

**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners  
**Sample ID:** TCS-GW02-012511  
**Collection Date:** 1/25/2011

**Work Order:** 1101544  
**Lab ID:** 1101544-09  
**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8260</b>			Analyst: LAK
1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	2/2/2011 04:55 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	2/2/2011 04:55 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	2/2/2011 04:55 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	2/2/2011 04:55 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	2/2/2011 04:55 PM
<b>1,1-Dichloroethene</b>	<b>14</b>		<b>5.0</b>	<b>µg/L</b>	1	2/2/2011 04:55 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	2/2/2011 04:55 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	2/2/2011 04:55 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	2/2/2011 04:55 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	2/2/2011 04:55 PM
<b>1,2,4-Trimethylbenzene</b>	<b>9.7</b>		<b>5.0</b>	<b>µg/L</b>	1	2/2/2011 04:55 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	2/2/2011 04:55 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	2/2/2011 04:55 PM
<b>1,2-Dichlorobenzene</b>	<b>18</b>		<b>5.0</b>	<b>µg/L</b>	1	2/2/2011 04:55 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	2/2/2011 04:55 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	2/2/2011 04:55 PM
<b>1,3,5-Trimethylbenzene</b>	<b>7.5</b>		<b>5.0</b>	<b>µg/L</b>	1	2/2/2011 04:55 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	2/2/2011 04:55 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	2/2/2011 04:55 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	2/2/2011 04:55 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	2/2/2011 04:55 PM
2-Butanone	ND		5.0	µg/L	1	2/2/2011 04:55 PM
2-Chlorotoluene	ND		5.0	µg/L	1	2/2/2011 04:55 PM
2-Hexanone	ND		5.0	µg/L	1	2/2/2011 04:55 PM
4-Chlorotoluene	ND		5.0	µg/L	1	2/2/2011 04:55 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	2/2/2011 04:55 PM
Acetone	ND		5.0	µg/L	1	2/2/2011 04:55 PM
Benzene	ND		5.0	µg/L	1	2/2/2011 04:55 PM
Bromobenzene	ND		5.0	µg/L	1	2/2/2011 04:55 PM
Bromochloromethane	ND		5.0	µg/L	1	2/2/2011 04:55 PM
Bromodichloromethane	ND		5.0	µg/L	1	2/2/2011 04:55 PM
Bromoform	ND		5.0	µg/L	1	2/2/2011 04:55 PM
Bromomethane	ND		5.0	µg/L	1	2/2/2011 04:55 PM
Carbon disulfide	ND		5.0	µg/L	1	2/2/2011 04:55 PM
Carbon tetrachloride	ND		5.0	µg/L	1	2/2/2011 04:55 PM
<b>Chlorobenzene</b>	<b>16</b>		<b>5.0</b>	<b>µg/L</b>	1	2/2/2011 04:55 PM
Chloroethane	ND		5.0	µg/L	1	2/2/2011 04:55 PM
Chloroform	ND		5.0	µg/L	1	2/2/2011 04:55 PM
Chloromethane	ND		5.0	µg/L	1	2/2/2011 04:55 PM

Note:

# ALS Environmental

Date: 09-Feb-11

**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners  
**Sample ID:** TCS-GW02-012511  
**Collection Date:** 1/25/2011

**Work Order:** 1101544  
**Lab ID:** 1101544-09  
**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	300		250	µg/L	50	2/7/2011 05:03 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	2/2/2011 04:55 PM
Dibromochloromethane	ND		5.0	µg/L	1	2/2/2011 04:55 PM
Dibromomethane	ND		5.0	µg/L	1	2/2/2011 04:55 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	2/2/2011 04:55 PM
Ethylbenzene	ND		5.0	µg/L	1	2/2/2011 04:55 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	2/2/2011 04:55 PM
Isopropylbenzene	ND		5.0	µg/L	1	2/2/2011 04:55 PM
m,p-Xylene	ND		5.0	µg/L	1	2/2/2011 04:55 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	2/2/2011 04:55 PM
Methylene chloride	ND		5.0	µg/L	1	2/2/2011 04:55 PM
Naphthalene	ND		5.0	µg/L	1	2/2/2011 04:55 PM
n-Butylbenzene	ND		5.0	µg/L	1	2/2/2011 04:55 PM
<b>n-Propylbenzene</b>	<b>6.5</b>		<b>5.0</b>	<b>µg/L</b>	1	2/2/2011 04:55 PM
o-Xylene	ND		5.0	µg/L	1	2/2/2011 04:55 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	2/2/2011 04:55 PM
sec-Butylbenzene	ND		5.0	µg/L	1	2/2/2011 04:55 PM
Styrene	ND		5.0	µg/L	1	2/2/2011 04:55 PM
tert-Butylbenzene	ND		5.0	µg/L	1	2/2/2011 04:55 PM
Tetrachloroethene	49,000		2,500	µg/L	500	2/7/2011 03:04 PM
Toluene	ND		5.0	µg/L	1	2/2/2011 04:55 PM
<b>trans-1,2-Dichloroethene</b>	<b>5.4</b>		<b>5.0</b>	<b>µg/L</b>	1	2/2/2011 04:55 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	2/2/2011 04:55 PM
<b>Trichloroethene</b>	<b>1,200</b>		<b>250</b>	<b>µg/L</b>	50	2/7/2011 05:03 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	2/2/2011 04:55 PM
<b>Vinyl chloride</b>	<b>3.2</b>		<b>2.0</b>	<b>µg/L</b>	1	2/2/2011 04:55 PM
<b>Xylenes, Total</b>	<b>ND</b>		<b>5.0</b>	<b>µg/L</b>	1	2/2/2011 04:55 PM
Surr: 4-Bromofluorobenzene	100		61-131	%REC	1	2/2/2011 04:55 PM
Surr: Dibromofluoromethane	101		87-126	%REC	1	2/2/2011 04:55 PM
Surr: Toluene-d8	99.1		84-111	%REC	1	2/2/2011 04:55 PM

Note:

Client: Weston Solutions

Project: 20405.012.001.1323: Tuchman Cleaners

Work Order: 1101544

Sample ID: TCS-GW03-012611

Lab ID: 1101544-10

Collection Date: 1/26/2011

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>						
1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	2/2/2011 05:25 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	2/2/2011 05:25 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	2/2/2011 05:25 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	2/2/2011 05:25 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	2/2/2011 05:25 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	2/2/2011 05:25 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	2/2/2011 05:25 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	2/2/2011 05:25 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	2/2/2011 05:25 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	2/2/2011 05:25 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	2/2/2011 05:25 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	2/2/2011 05:25 PM
2-Butanone	ND		5.0	µg/L	1	2/2/2011 05:25 PM
2-Chlorotoluene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
2-Hexanone	ND		5.0	µg/L	1	2/2/2011 05:25 PM
4-Chlorotoluene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	2/2/2011 05:25 PM
Acetone	ND		5.0	µg/L	1	2/2/2011 05:25 PM
Benzene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
Bromobenzene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
Bromochloromethane	ND		5.0	µg/L	1	2/2/2011 05:25 PM
Bromodichloromethane	ND		5.0	µg/L	1	2/2/2011 05:25 PM
Bromoform	ND		5.0	µg/L	1	2/2/2011 05:25 PM
Bromomethane	ND		5.0	µg/L	1	2/2/2011 05:25 PM
Carbon disulfide	ND		5.0	µg/L	1	2/2/2011 05:25 PM
Carbon tetrachloride	ND		5.0	µg/L	1	2/2/2011 05:25 PM
Chlorobenzene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
Chloroethane	ND		5.0	µg/L	1	2/2/2011 05:25 PM
Chloroform	ND		5.0	µg/L	1	2/2/2011 05:25 PM
Chloromethane	ND		5.0	µg/L	1	2/2/2011 05:25 PM

Note:

# ALS Environmental

Date: 09-Feb-11

**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners  
**Sample ID:** TCS-GW03-012611  
**Collection Date:** 1/26/2011

**Work Order:** 1101544  
**Lab ID:** 1101544-10  
**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	130		5.0	µg/L	1	2/2/2011 05:25 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
Dibromochloromethane	ND		5.0	µg/L	1	2/2/2011 05:25 PM
Dibromomethane	ND		5.0	µg/L	1	2/2/2011 05:25 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	2/2/2011 05:25 PM
Ethylbenzene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
Isopropylbenzene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
m,p-Xylene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	2/2/2011 05:25 PM
Methylene chloride	ND		5.0	µg/L	1	2/2/2011 05:25 PM
Naphthalene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
n-Butylbenzene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
n-Propylbenzene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
o-Xylene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
sec-Butylbenzene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
Styrene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
tert-Butylbenzene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
<b>Tetrachloroethene</b>	<b>780</b>		<b>250</b>	<b>µg/L</b>	50	2/7/2011 05:33 PM
Toluene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	2/2/2011 05:25 PM
<b>Trichloroethene</b>	<b>160</b>		<b>5.0</b>	<b>µg/L</b>	1	2/2/2011 05:25 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	2/2/2011 05:25 PM
<b>Vinyl chloride</b>	<b>5.4</b>		<b>2.0</b>	<b>µg/L</b>	1	2/2/2011 05:25 PM
Xylenes, Total	ND		5.0	µg/L	1	2/2/2011 05:25 PM
Surr: 4-Bromofluorobenzene	99.7		61-131	%REC	1	2/2/2011 05:25 PM
Surr: Dibromofluoromethane	101		87-126	%REC	1	2/2/2011 05:25 PM
Surr: Toluene-d8	94.5		84-111	%REC	1	2/2/2011 05:25 PM

Note:

Client: Weston Solutions

Project: 20405.012.001.1323: Tuchman Cleaners

Sample ID: TCS-GW04-012611

Collection Date: 1/26/2011

Work Order: 1101544

Lab ID: 1101544-11

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>						
1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	2/2/2011 05:55 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	2/2/2011 05:55 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	2/2/2011 05:55 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	2/2/2011 05:55 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	2/2/2011 05:55 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	2/2/2011 05:55 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	2/2/2011 05:55 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	2/2/2011 05:55 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	2/2/2011 05:55 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	2/2/2011 05:55 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	2/2/2011 05:55 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	2/2/2011 05:55 PM
2-Butanone	ND		5.0	µg/L	1	2/2/2011 05:55 PM
2-Chlorotoluene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
2-Hexanone	ND		5.0	µg/L	1	2/2/2011 05:55 PM
4-Chlorotoluene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	2/2/2011 05:55 PM
Acetone	ND		5.0	µg/L	1	2/2/2011 05:55 PM
Benzene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
Bromobenzene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
Bromochloromethane	ND		5.0	µg/L	1	2/2/2011 05:55 PM
Bromodichloromethane	ND		5.0	µg/L	1	2/2/2011 05:55 PM
Bromoform	ND		5.0	µg/L	1	2/2/2011 05:55 PM
Bromomethane	ND		5.0	µg/L	1	2/2/2011 05:55 PM
Carbon disulfide	ND		5.0	µg/L	1	2/2/2011 05:55 PM
Carbon tetrachloride	ND		5.0	µg/L	1	2/2/2011 05:55 PM
Chlorobenzene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
Chloroethane	ND		5.0	µg/L	1	2/2/2011 05:55 PM
Chloroform	ND		5.0	µg/L	1	2/2/2011 05:55 PM
Chloromethane	ND		5.0	µg/L	1	2/2/2011 05:55 PM

Note:

**ALS Environmental****Date:** 09-Feb-11

**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners  
**Sample ID:** TCS-GW04-012611  
**Collection Date:** 1/26/2011

**Work Order:** 1101544  
**Lab ID:** 1101544-11  
**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	640		500	µg/L	100	2/7/2011 03:33 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
Dibromochloromethane	ND		5.0	µg/L	1	2/2/2011 05:55 PM
Dibromomethane	ND		5.0	µg/L	1	2/2/2011 05:55 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	2/2/2011 05:55 PM
Ethylbenzene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
Isopropylbenzene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
m,p-Xylene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	2/2/2011 05:55 PM
Methylene chloride	ND		5.0	µg/L	1	2/2/2011 05:55 PM
Naphthalene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
n-Butylbenzene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
n-Propylbenzene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
o-Xylene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
sec-Butylbenzene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
Styrene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
tert-Butylbenzene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
Tetrachloroethene	1,100		500	µg/L	100	2/7/2011 03:33 PM
Toluene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	2/2/2011 05:55 PM
Trichloroethene	150		5.0	µg/L	1	2/2/2011 05:55 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	2/2/2011 05:55 PM
Vinyl chloride	23		2.0	µg/L	1	2/2/2011 05:55 PM
Xylenes, Total	ND		5.0	µg/L	1	2/2/2011 05:55 PM
Surr: 4-Bromofluorobenzene	94.6		61-131	%REC	1	2/2/2011 05:55 PM
Surr: Dibromofluoromethane	105		87-126	%REC	1	2/2/2011 05:55 PM
Surr: Toluene-d8	97.5		84-111	%REC	1	2/2/2011 05:55 PM

**Note:**

Client: Weston Solutions

Project: 20405.012.001.1323: Tuchman Cleaners

Sample ID: TCS-GW05-012611

Collection Date: 1/26/2011

Work Order: 1101544

Lab ID: 1101544-12

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>						
1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	2/8/2011 12:03 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	2/8/2011 12:03 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	2/8/2011 12:03 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	2/8/2011 12:03 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	2/8/2011 12:03 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	2/8/2011 12:03 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	2/8/2011 12:03 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	2/8/2011 12:03 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	2/8/2011 12:03 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	2/8/2011 12:03 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	2/8/2011 12:03 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	2/8/2011 12:03 PM
2-Butanone	ND		5.0	µg/L	1	2/8/2011 12:03 PM
2-Chlorotoluene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
2-Hexanone	ND		5.0	µg/L	1	2/8/2011 12:03 PM
4-Chlorotoluene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	2/8/2011 12:03 PM
Acetone	ND		5.0	µg/L	1	2/8/2011 12:03 PM
Benzene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
Bromobenzene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
Bromochloromethane	ND		5.0	µg/L	1	2/8/2011 12:03 PM
Bromodichloromethane	ND		5.0	µg/L	1	2/8/2011 12:03 PM
Bromoform	ND		5.0	µg/L	1	2/8/2011 12:03 PM
Bromomethane	ND		5.0	µg/L	1	2/8/2011 12:03 PM
Carbon disulfide	ND		5.0	µg/L	1	2/8/2011 12:03 PM
Carbon tetrachloride	ND		5.0	µg/L	1	2/8/2011 12:03 PM
Chlorobenzene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
Chloroethane	ND		5.0	µg/L	1	2/8/2011 12:03 PM
Chloroform	ND		5.0	µg/L	1	2/8/2011 12:03 PM
Chloromethane	ND		5.0	µg/L	1	2/8/2011 12:03 PM

Note:

# ALS Environmental

Date: 09-Feb-11

**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners  
**Sample ID:** TCS-GW05-012611  
**Collection Date:** 1/26/2011

**Work Order:** 1101544  
**Lab ID:** 1101544-12  
**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
Dibromochloromethane	ND		5.0	µg/L	1	2/8/2011 12:03 PM
Dibromomethane	ND		5.0	µg/L	1	2/8/2011 12:03 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	2/8/2011 12:03 PM
Ethylbenzene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
Isopropylbenzene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
m,p-Xylene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	2/8/2011 12:03 PM
Methylene chloride	ND		5.0	µg/L	1	2/8/2011 12:03 PM
Naphthalene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
n-Butylbenzene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
n-Propylbenzene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
o-Xylene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
sec-Butylbenzene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
Styrene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
tert-Butylbenzene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
<b>Tetrachloroethene</b>	<b>13</b>		<b>5.0</b>	<b>µg/L</b>	1	2/8/2011 12:03 PM
Toluene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
Trichloroethene	ND		5.0	µg/L	1	2/8/2011 12:03 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	2/8/2011 12:03 PM
Vinyl chloride	ND		2.0	µg/L	1	2/8/2011 12:03 PM
Xylenes, Total	ND		5.0	µg/L	1	2/8/2011 12:03 PM
Surr: 4-Bromofluorobenzene	98.8		61-131	%REC	1	2/8/2011 12:03 PM
Surr: Dibromofluoromethane	109		87-126	%REC	1	2/8/2011 12:03 PM
Surr: Toluene-d8	97.7		84-111	%REC	1	2/8/2011 12:03 PM

Note:

Client: Weston Solutions

Project: 20405.012.001.1323: Tuchman Cleaners

Sample ID: TCS-GW06-012611

Collection Date: 1/26/2011

Work Order: 1101544

Lab ID: 1101544-13

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>						
1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	2/2/2011 06:54 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	2/2/2011 06:54 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	2/2/2011 06:54 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	2/2/2011 06:54 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	2/2/2011 06:54 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	2/2/2011 06:54 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	2/2/2011 06:54 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	2/2/2011 06:54 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	2/2/2011 06:54 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	2/2/2011 06:54 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	2/2/2011 06:54 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	2/2/2011 06:54 PM
2-Butanone	ND		5.0	µg/L	1	2/2/2011 06:54 PM
2-Chlorotoluene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
2-Hexanone	ND		5.0	µg/L	1	2/2/2011 06:54 PM
4-Chlorotoluene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	2/2/2011 06:54 PM
Acetone	ND		5.0	µg/L	1	2/2/2011 06:54 PM
Benzene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
Bromobenzene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
Bromochloromethane	ND		5.0	µg/L	1	2/2/2011 06:54 PM
Bromodichloromethane	ND		5.0	µg/L	1	2/2/2011 06:54 PM
Bromoform	ND		5.0	µg/L	1	2/2/2011 06:54 PM
Bromomethane	ND		5.0	µg/L	1	2/2/2011 06:54 PM
Carbon disulfide	ND		5.0	µg/L	1	2/2/2011 06:54 PM
Carbon tetrachloride	ND		5.0	µg/L	1	2/2/2011 06:54 PM
Chlorobenzene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
Chloroethane	ND		5.0	µg/L	1	2/2/2011 06:54 PM
Chloroform	ND		5.0	µg/L	1	2/2/2011 06:54 PM
Chloromethane	ND		5.0	µg/L	1	2/2/2011 06:54 PM

Note:

# ALS Environmental

Date: 09-Feb-11

**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners  
**Sample ID:** TCS-GW06-012611  
**Collection Date:** 1/26/2011

**Work Order:** 1101544  
**Lab ID:** 1101544-13  
**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	1,200		250	µg/L	50	2/7/2011 06:03 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
Dibromochloromethane	ND		5.0	µg/L	1	2/2/2011 06:54 PM
Dibromomethane	ND		5.0	µg/L	1	2/2/2011 06:54 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	2/2/2011 06:54 PM
Ethylbenzene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
Isopropylbenzene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
m,p-Xylene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	2/2/2011 06:54 PM
Methylene chloride	ND		5.0	µg/L	1	2/2/2011 06:54 PM
Naphthalene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
n-Butylbenzene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
n-Propylbenzene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
o-Xylene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
sec-Butylbenzene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
Styrene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
tert-Butylbenzene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
Tetrachloroethene	33		5.0	µg/L	1	2/2/2011 06:54 PM
Toluene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
trans-1,2-Dichloroethene	19		5.0	µg/L	1	2/2/2011 06:54 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
Trichloroethene	ND		5.0	µg/L	1	2/2/2011 06:54 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	2/2/2011 06:54 PM
Vinyl chloride	220		100	µg/L	50	2/7/2011 06:03 PM
Xylenes, Total	ND		5.0	µg/L	1	2/2/2011 06:54 PM
Surr: 4-Bromofluorobenzene	95.9		61-131	%REC	1	2/2/2011 06:54 PM
Surr: Dibromofluoromethane	102		87-126	%REC	1	2/2/2011 06:54 PM
Surr: Toluene-d8	92.8		84-111	%REC	1	2/2/2011 06:54 PM

Note:

# ALS Environmental

Date: 09-Feb-11

**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners  
**Sample ID:** TCS-GW07-012611  
**Collection Date:** 1/26/2011

**Work Order:** 1101544  
**Lab ID:** 1101544-14  
**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8260</b>			Analyst: LAK
1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	2/7/2011 04:03 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	2/7/2011 04:03 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	2/7/2011 04:03 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	2/7/2011 04:03 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	2/7/2011 04:03 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	2/7/2011 04:03 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	2/7/2011 04:03 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	2/7/2011 04:03 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	2/7/2011 04:03 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	2/7/2011 04:03 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	2/7/2011 04:03 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	2/7/2011 04:03 PM
2-Butanone	ND		5.0	µg/L	1	2/7/2011 04:03 PM
2-Chlorotoluene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
2-Hexanone	ND		5.0	µg/L	1	2/7/2011 04:03 PM
4-Chlorotoluene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	2/7/2011 04:03 PM
Acetone	ND		5.0	µg/L	1	2/7/2011 04:03 PM
Benzene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
Bromobenzene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
Bromochloromethane	ND		5.0	µg/L	1	2/7/2011 04:03 PM
Bromodichloromethane	ND		5.0	µg/L	1	2/7/2011 04:03 PM
Bromoform	ND		5.0	µg/L	1	2/7/2011 04:03 PM
Bromomethane	ND		5.0	µg/L	1	2/7/2011 04:03 PM
Carbon disulfide	ND		5.0	µg/L	1	2/7/2011 04:03 PM
Carbon tetrachloride	ND		5.0	µg/L	1	2/7/2011 04:03 PM
Chlorobenzene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
Chloroethane	ND		5.0	µg/L	1	2/7/2011 04:03 PM
Chloroform	ND		5.0	µg/L	1	2/7/2011 04:03 PM
Chloromethane	ND		5.0	µg/L	1	2/7/2011 04:03 PM

Note:

# ALS Environmental

Date: 09-Feb-11

**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners  
**Sample ID:** TCS-GW07-012611  
**Collection Date:** 1/26/2011

**Work Order:** 1101544  
**Lab ID:** 1101544-14  
**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
Dibromochloromethane	ND		5.0	µg/L	1	2/7/2011 04:03 PM
Dibromomethane	ND		5.0	µg/L	1	2/7/2011 04:03 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	2/7/2011 04:03 PM
Ethylbenzene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
Isopropylbenzene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
m,p-Xylene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	2/7/2011 04:03 PM
Methylene chloride	ND		5.0	µg/L	1	2/7/2011 04:03 PM
Naphthalene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
n-Butylbenzene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
n-Propylbenzene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
o-Xylene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
sec-Butylbenzene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
Styrene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
tert-Butylbenzene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
Tetrachloroethene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
Toluene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
Trichloroethene	ND		5.0	µg/L	1	2/7/2011 04:03 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	2/7/2011 04:03 PM
Vinyl chloride	ND		2.0	µg/L	1	2/7/2011 04:03 PM
Xylenes, Total	ND		5.0	µg/L	1	2/7/2011 04:03 PM
Surr: 4-Bromofluorobenzene	96.0		61-131	%REC	1	2/7/2011 04:03 PM
Surr: Dibromofluoromethane	106		87-126	%REC	1	2/7/2011 04:03 PM
Surr: Toluene-d8	97.7		84-111	%REC	1	2/7/2011 04:03 PM

Note:

**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners  
**Sample ID:** TCS-GW08-012611  
**Collection Date:** 1/26/2011

**Work Order:** 1101544  
**Lab ID:** 1101544-15  
**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8260</b>			Analyst: LAK
1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	2/2/2011 07:54 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	2/2/2011 07:54 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	2/2/2011 07:54 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	2/2/2011 07:54 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	2/2/2011 07:54 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	2/2/2011 07:54 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	2/2/2011 07:54 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	2/2/2011 07:54 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	2/2/2011 07:54 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	2/2/2011 07:54 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	2/2/2011 07:54 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	2/2/2011 07:54 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	2/2/2011 07:54 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	2/2/2011 07:54 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	2/2/2011 07:54 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	2/2/2011 07:54 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	2/2/2011 07:54 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	2/2/2011 07:54 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	2/2/2011 07:54 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	2/2/2011 07:54 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	2/2/2011 07:54 PM
2-Butanone	ND		5.0	µg/L	1	2/2/2011 07:54 PM
2-Chlorotoluene	ND		5.0	µg/L	1	2/2/2011 07:54 PM
2-Hexanone	ND		5.0	µg/L	1	2/2/2011 07:54 PM
4-Chlorotoluene	ND		5.0	µg/L	1	2/2/2011 07:54 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	2/2/2011 07:54 PM
Acetone	ND		5.0	µg/L	1	2/2/2011 07:54 PM
Benzene	ND		5.0	µg/L	1	2/2/2011 07:54 PM
Bromobenzene	ND		5.0	µg/L	1	2/2/2011 07:54 PM
Bromochloromethane	ND		5.0	µg/L	1	2/2/2011 07:54 PM
Bromodichloromethane	ND		5.0	µg/L	1	2/2/2011 07:54 PM
Bromoform	ND		5.0	µg/L	1	2/2/2011 07:54 PM
Bromomethane	ND		5.0	µg/L	1	2/2/2011 07:54 PM
Carbon disulfide	ND		5.0	µg/L	1	2/2/2011 07:54 PM
Carbon tetrachloride	ND		5.0	µg/L	1	2/2/2011 07:54 PM
Chlorobenzene	ND		5.0	µg/L	1	2/2/2011 07:54 PM
Chloroethane	ND		5.0	µg/L	1	2/2/2011 07:54 PM
Chloroform	ND		5.0	µg/L	1	2/2/2011 07:54 PM
Chloromethane	ND		5.0	µg/L	1	2/2/2011 07:54 PM

Note:

# ALS Environmental

Date: 09-Feb-11

**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners  
**Sample ID:** TCS-GW08-012611  
**Collection Date:** 1/26/2011

**Work Order:** 1101544  
**Lab ID:** 1101544-15  
**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	1,000		250	µg/L	50	2/7/2011 06:33 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	2/2/2011 07:54 PM
Dibromochloromethane	ND		5.0	µg/L	1	2/2/2011 07:54 PM
Dibromomethane	ND		5.0	µg/L	1	2/2/2011 07:54 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	2/2/2011 07:54 PM
Ethylbenzene	ND		5.0	µg/L	1	2/2/2011 07:54 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	2/2/2011 07:54 PM
Isopropylbenzene	ND		5.0	µg/L	1	2/2/2011 07:54 PM
m,p-Xylene	ND		5.0	µg/L	1	2/2/2011 07:54 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	2/2/2011 07:54 PM
Methylene chloride	ND		5.0	µg/L	1	2/2/2011 07:54 PM
Naphthalene	ND		5.0	µg/L	1	2/2/2011 07:54 PM
n-Butylbenzene	ND		5.0	µg/L	1	2/2/2011 07:54 PM
n-Propylbenzene	ND		5.0	µg/L	1	2/2/2011 07:54 PM
o-Xylene	ND		5.0	µg/L	1	2/2/2011 07:54 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	2/2/2011 07:54 PM
sec-Butylbenzene	ND		5.0	µg/L	1	2/2/2011 07:54 PM
Styrene	ND		5.0	µg/L	1	2/2/2011 07:54 PM
tert-Butylbenzene	ND		5.0	µg/L	1	2/2/2011 07:54 PM
Tetrachloroethene	6,100		250	µg/L	50	2/7/2011 06:33 PM
Toluene	ND		5.0	µg/L	1	2/2/2011 07:54 PM
trans-1,2-Dichloroethene	20		5.0	µg/L	1	2/2/2011 07:54 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	2/2/2011 07:54 PM
Trichloroethene	2,300		250	µg/L	50	2/7/2011 06:33 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	2/2/2011 07:54 PM
Vinyl chloride	14		2.0	µg/L	1	2/2/2011 07:54 PM
Xylenes, Total	ND		5.0	µg/L	1	2/2/2011 07:54 PM
Surr: 4-Bromofluorobenzene	94.7		61-131	%REC	1	2/2/2011 07:54 PM
Surr: Dibromofluoromethane	104		87-126	%REC	1	2/2/2011 07:54 PM
Surr: Toluene-d8	94.0		84-111	%REC	1	2/2/2011 07:54 PM

Note:

**ALS Environmental****Date:** 09-Feb-11

**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners  
**Sample ID:** TCS-GW09-012711  
**Collection Date:** 1/27/2011

**Work Order:** 1101544  
**Lab ID:** 1101544-16  
**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>						
1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	2/7/2011 04:33 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	2/7/2011 04:33 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	2/7/2011 04:33 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	2/7/2011 04:33 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	2/7/2011 04:33 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	2/7/2011 04:33 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	2/7/2011 04:33 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	2/7/2011 04:33 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	2/7/2011 04:33 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	2/7/2011 04:33 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	2/7/2011 04:33 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	2/7/2011 04:33 PM
2-Butanone	ND		5.0	µg/L	1	2/7/2011 04:33 PM
2-Chlorotoluene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
2-Hexanone	ND		5.0	µg/L	1	2/7/2011 04:33 PM
4-Chlorotoluene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	2/7/2011 04:33 PM
Acetone	ND		5.0	µg/L	1	2/7/2011 04:33 PM
Benzene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
Bromobenzene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
Bromochloromethane	ND		5.0	µg/L	1	2/7/2011 04:33 PM
Bromodichloromethane	ND		5.0	µg/L	1	2/7/2011 04:33 PM
Bromoform	ND		5.0	µg/L	1	2/7/2011 04:33 PM
Bromomethane	ND		5.0	µg/L	1	2/7/2011 04:33 PM
Carbon disulfide	ND		5.0	µg/L	1	2/7/2011 04:33 PM
Carbon tetrachloride	ND		5.0	µg/L	1	2/7/2011 04:33 PM
Chlorobenzene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
Chloroethane	ND		5.0	µg/L	1	2/7/2011 04:33 PM
Chloroform	ND		5.0	µg/L	1	2/7/2011 04:33 PM
Chloromethane	ND		5.0	µg/L	1	2/7/2011 04:33 PM

**Note:**

**ALS Environmental****Date:** 09-Feb-11

**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners  
**Sample ID:** TCS-GW09-012711  
**Collection Date:** 1/27/2011

**Work Order:** 1101544  
**Lab ID:** 1101544-16  
**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	7.5		5.0	µg/L	1	2/7/2011 04:33 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
Dibromochloromethane	ND		5.0	µg/L	1	2/7/2011 04:33 PM
Dibromomethane	ND		5.0	µg/L	1	2/7/2011 04:33 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	2/7/2011 04:33 PM
Ethylbenzene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
Isopropylbenzene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
m,p-Xylene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	2/7/2011 04:33 PM
Methylene chloride	ND		5.0	µg/L	1	2/7/2011 04:33 PM
Naphthalene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
n-Butylbenzene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
n-Propylbenzene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
o-Xylene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
sec-Butylbenzene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
Styrene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
tert-Butylbenzene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
Tetrachloroethene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
Toluene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
Trichloroethene	ND		5.0	µg/L	1	2/7/2011 04:33 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	2/7/2011 04:33 PM
Vinyl chloride	ND		2.0	µg/L	1	2/7/2011 04:33 PM
Xylenes, Total	ND		5.0	µg/L	1	2/7/2011 04:33 PM
Surr: 4-Bromofluorobenzene	98.6		61-131	%REC	1	2/7/2011 04:33 PM
Surr: Dibromofluoromethane	106		87-126	%REC	1	2/7/2011 04:33 PM
Surr: Toluene-d8	93.6		84-111	%REC	1	2/7/2011 04:33 PM

**Note:**

# ALS Environmental

Date: 09-Feb-11

**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners  
**Sample ID:** TCS-WTR01-012511  
**Collection Date:** 1/25/2011

**Work Order:** 1101544  
**Lab ID:** 1101544-17  
**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW8260</b>			Analyst: LAK
1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	2/2/2011 08:54 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	2/2/2011 08:54 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	2/2/2011 08:54 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	2/2/2011 08:54 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	2/2/2011 08:54 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	2/2/2011 08:54 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	2/2/2011 08:54 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	2/2/2011 08:54 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	2/2/2011 08:54 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	2/2/2011 08:54 PM
<b>1,2,4-Trimethylbenzene</b>	<b>18</b>		<b>5.0</b>	<b>µg/L</b>	1	2/2/2011 08:54 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	2/2/2011 08:54 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	2/2/2011 08:54 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	2/2/2011 08:54 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	2/2/2011 08:54 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	2/2/2011 08:54 PM
<b>1,3,5-Trimethylbenzene</b>	<b>5.4</b>		<b>5.0</b>	<b>µg/L</b>	1	2/2/2011 08:54 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	2/2/2011 08:54 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	2/2/2011 08:54 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	2/2/2011 08:54 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	2/2/2011 08:54 PM
<b>2-Butanone</b>	<b>63</b>		<b>5.0</b>	<b>µg/L</b>	1	2/2/2011 08:54 PM
<b>2-Chlorotoluene</b>	<b>65</b>		<b>5.0</b>	<b>µg/L</b>	1	2/2/2011 08:54 PM
2-Hexanone	ND		5.0	µg/L	1	2/2/2011 08:54 PM
4-Chlorotoluene	ND		5.0	µg/L	1	2/2/2011 08:54 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	2/2/2011 08:54 PM
<b>Acetone</b>	<b>150</b>		<b>5.0</b>	<b>µg/L</b>	1	2/2/2011 08:54 PM
Benzene	ND		5.0	µg/L	1	2/2/2011 08:54 PM
Bromobenzene	ND		5.0	µg/L	1	2/2/2011 08:54 PM
Bromochloromethane	ND		5.0	µg/L	1	2/2/2011 08:54 PM
Bromodichloromethane	ND		5.0	µg/L	1	2/2/2011 08:54 PM
Bromoform	ND		5.0	µg/L	1	2/2/2011 08:54 PM
Bromomethane	ND		5.0	µg/L	1	2/2/2011 08:54 PM
Carbon disulfide	ND		5.0	µg/L	1	2/2/2011 08:54 PM
Carbon tetrachloride	ND		5.0	µg/L	1	2/2/2011 08:54 PM
Chlorobenzene	ND		5.0	µg/L	1	2/2/2011 08:54 PM
Chloroethane	ND		5.0	µg/L	1	2/2/2011 08:54 PM
Chloroform	ND		5.0	µg/L	1	2/2/2011 08:54 PM
Chloromethane	ND		5.0	µg/L	1	2/2/2011 08:54 PM

Note:

# ALS Environmental

Date: 09-Feb-11

**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners  
**Sample ID:** TCS-WTR01-012511  
**Collection Date:** 1/25/2011

**Work Order:** 1101544  
**Lab ID:** 1101544-17  
**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	890		250	µg/L	50	2/7/2011 07:03 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	2/2/2011 08:54 PM
Dibromochloromethane	ND		5.0	µg/L	1	2/2/2011 08:54 PM
Dibromomethane	ND		5.0	µg/L	1	2/2/2011 08:54 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	2/2/2011 08:54 PM
Ethylbenzene	ND		5.0	µg/L	1	2/2/2011 08:54 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	2/2/2011 08:54 PM
Isopropylbenzene	ND		5.0	µg/L	1	2/2/2011 08:54 PM
<b>m,p-Xylene</b>	<b>9.9</b>		<b>5.0</b>	<b>µg/L</b>	1	2/2/2011 08:54 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	2/2/2011 08:54 PM
Methylene chloride	ND		5.0	µg/L	1	2/2/2011 08:54 PM
Naphthalene	ND		5.0	µg/L	1	2/2/2011 08:54 PM
n-Butylbenzene	ND		5.0	µg/L	1	2/2/2011 08:54 PM
n-Propylbenzene	ND		5.0	µg/L	1	2/2/2011 08:54 PM
<b>o-Xylene</b>	<b>5.9</b>		<b>5.0</b>	<b>µg/L</b>	1	2/2/2011 08:54 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	2/2/2011 08:54 PM
sec-Butylbenzene	ND		5.0	µg/L	1	2/2/2011 08:54 PM
Styrene	ND		5.0	µg/L	1	2/2/2011 08:54 PM
tert-Butylbenzene	ND		5.0	µg/L	1	2/2/2011 08:54 PM
Tetrachloroethene	16		5.0	µg/L	1	2/2/2011 08:54 PM
Toluene	14		5.0	µg/L	1	2/2/2011 08:54 PM
<b>trans-1,2-Dichloroethene</b>	<b>14</b>		<b>5.0</b>	<b>µg/L</b>	1	2/2/2011 08:54 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	2/2/2011 08:54 PM
Trichloroethene	ND		5.0	µg/L	1	2/2/2011 08:54 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	2/2/2011 08:54 PM
<b>Vinyl chloride</b>	<b>290</b>		<b>100</b>	<b>µg/L</b>	50	2/7/2011 07:03 PM
<b>Xylenes, Total</b>	<b>16</b>		<b>5.0</b>	<b>µg/L</b>	1	2/2/2011 08:54 PM
Surr: 4-Bromofluorobenzene	99.0		61-131	%REC	1	2/2/2011 08:54 PM
Surr: Dibromofluoromethane	104		87-126	%REC	1	2/2/2011 08:54 PM
Surr: Toluene-d8	98.9		84-111	%REC	1	2/2/2011 08:54 PM

Note:

**Client:** Weston Solutions  
**Project:** 20405.012.001.1323: Tuchman Cleaners  
**WorkOrder:** 1101544

**QUALIFIERS,  
ACRONYMS, UNITS**

<b><u>Qualifier</u></b>	<b><u>Description</u></b>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<b><u>Acronym</u></b>	<b><u>Description</u></b>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit

**Units Reported**   **Description**

µg/Kg  
µg/L  
mg/L